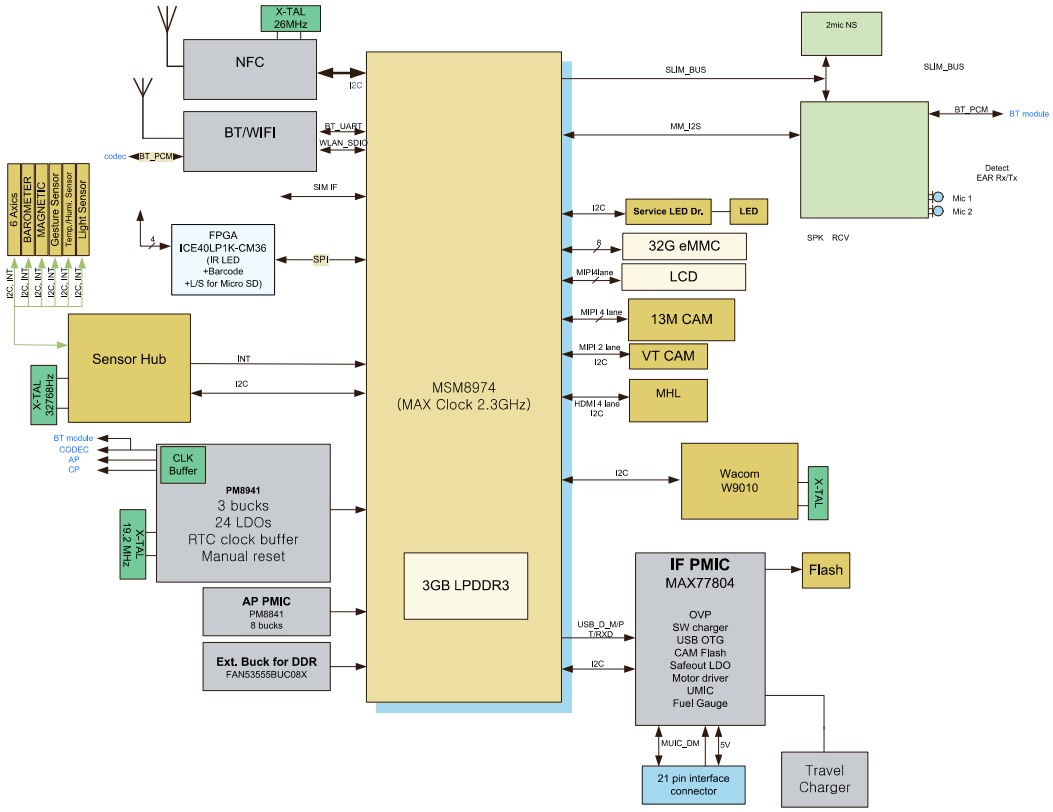
8. Level 3 Repair

8-1. Block Diagram

SM-N900A Logic Part Block Diagram

Confidential



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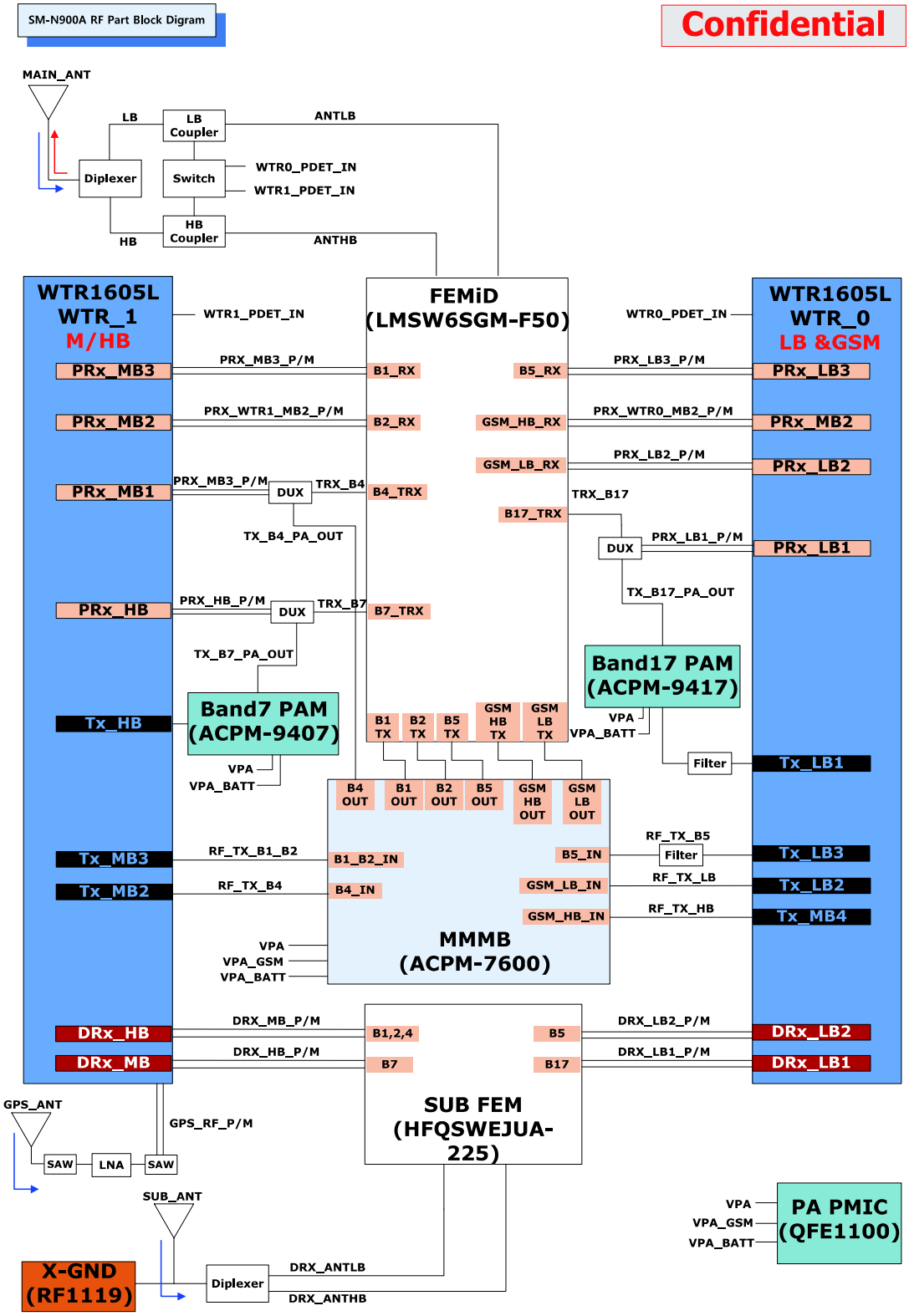

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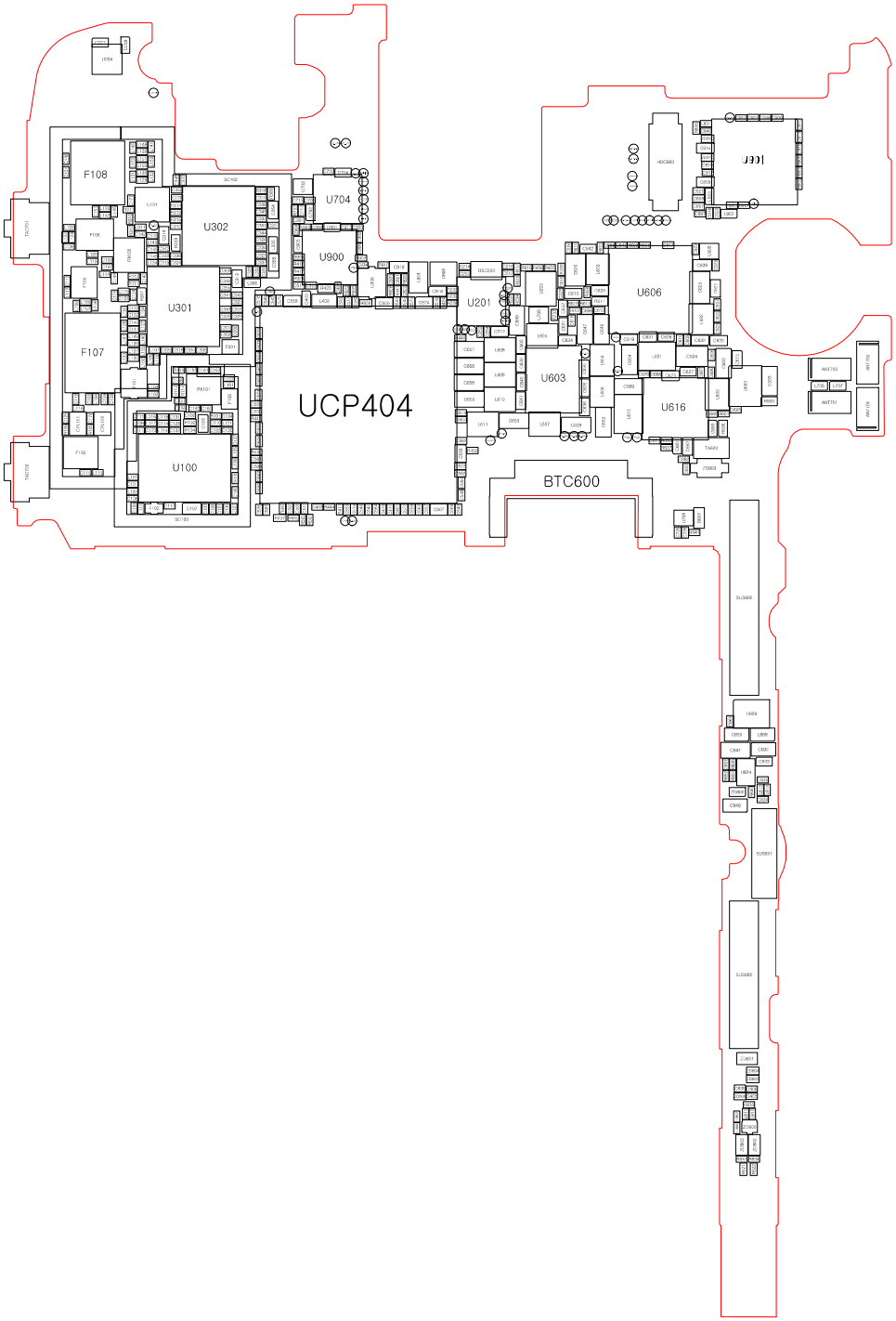
8-2. PCB Diagrams

8-2-1. Main PCB Top



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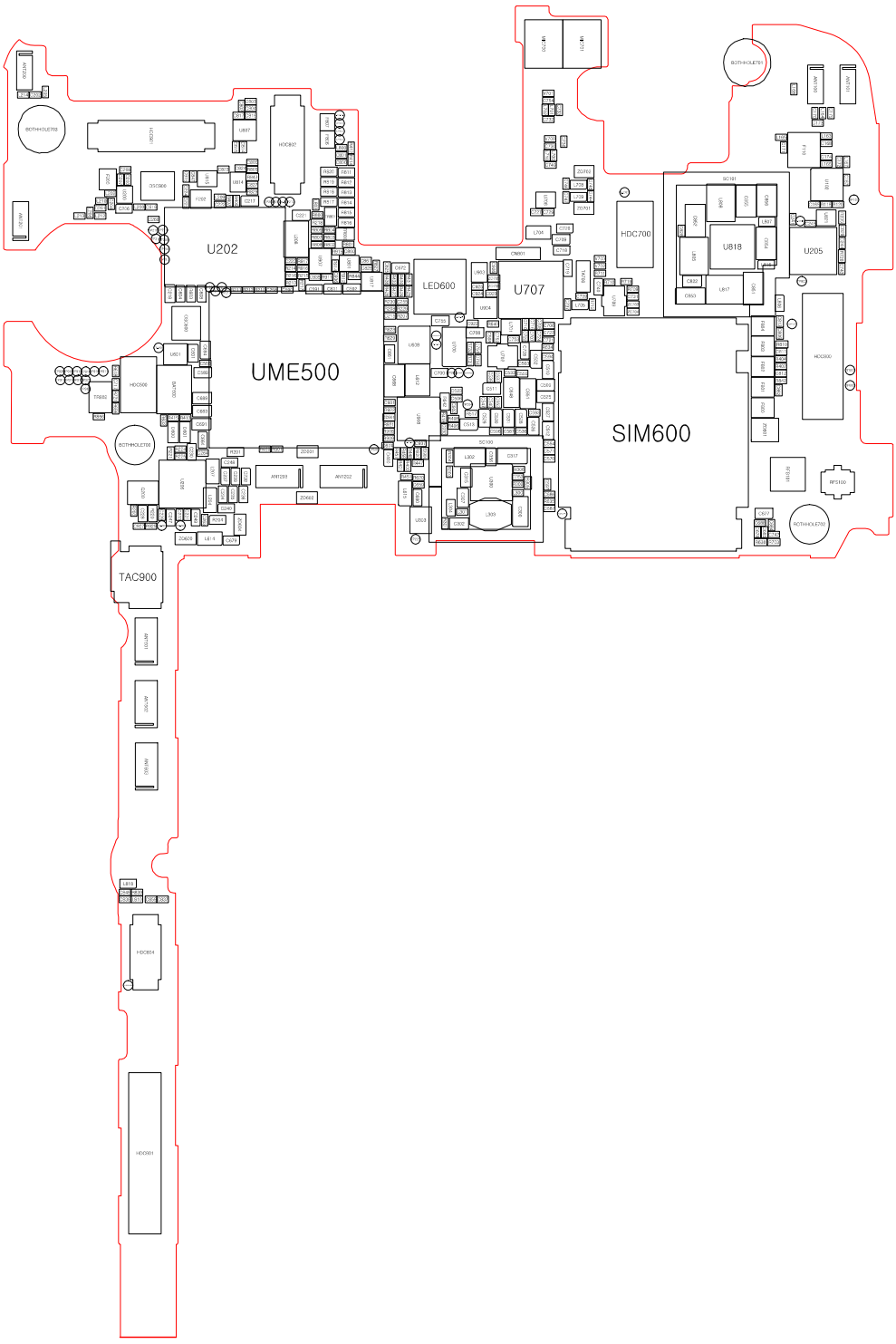
8-2-2. Bottom



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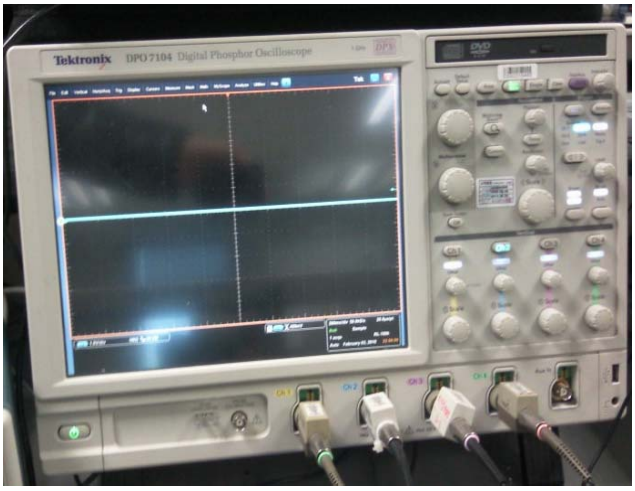
8-3. Flow Chart of Troubleshooting

Equipments

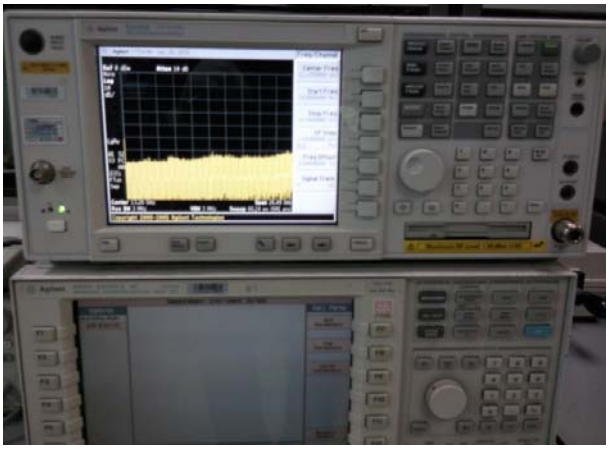


↑ Oscilloscope

↑ Digital Multimeter

↑ Power Supply

↑ + driver, ESD Safe Tweezer



↑ 8960 & Spectrum Analyzer

↑ Soldering iron

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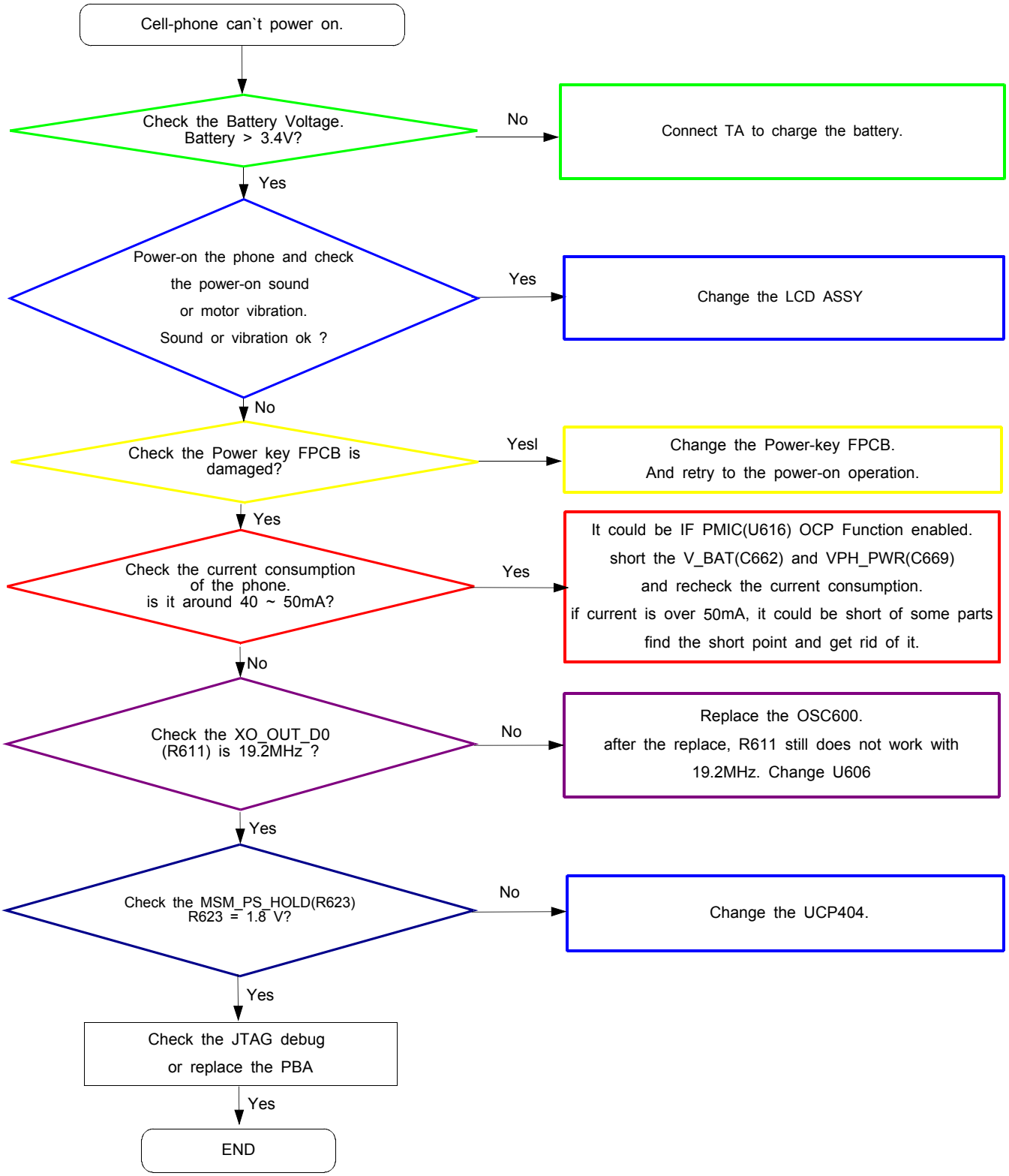
8-3-1. Power On



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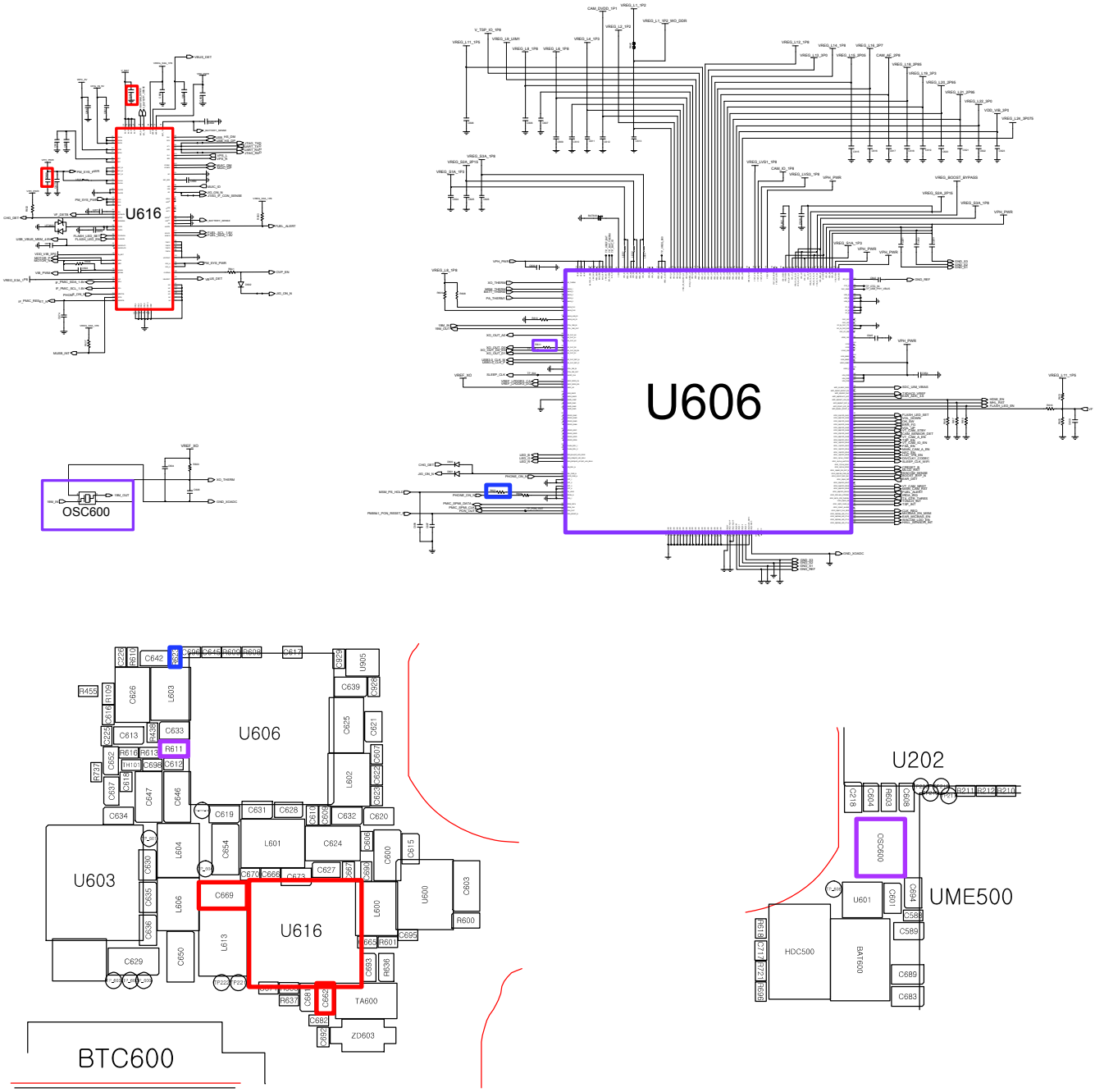

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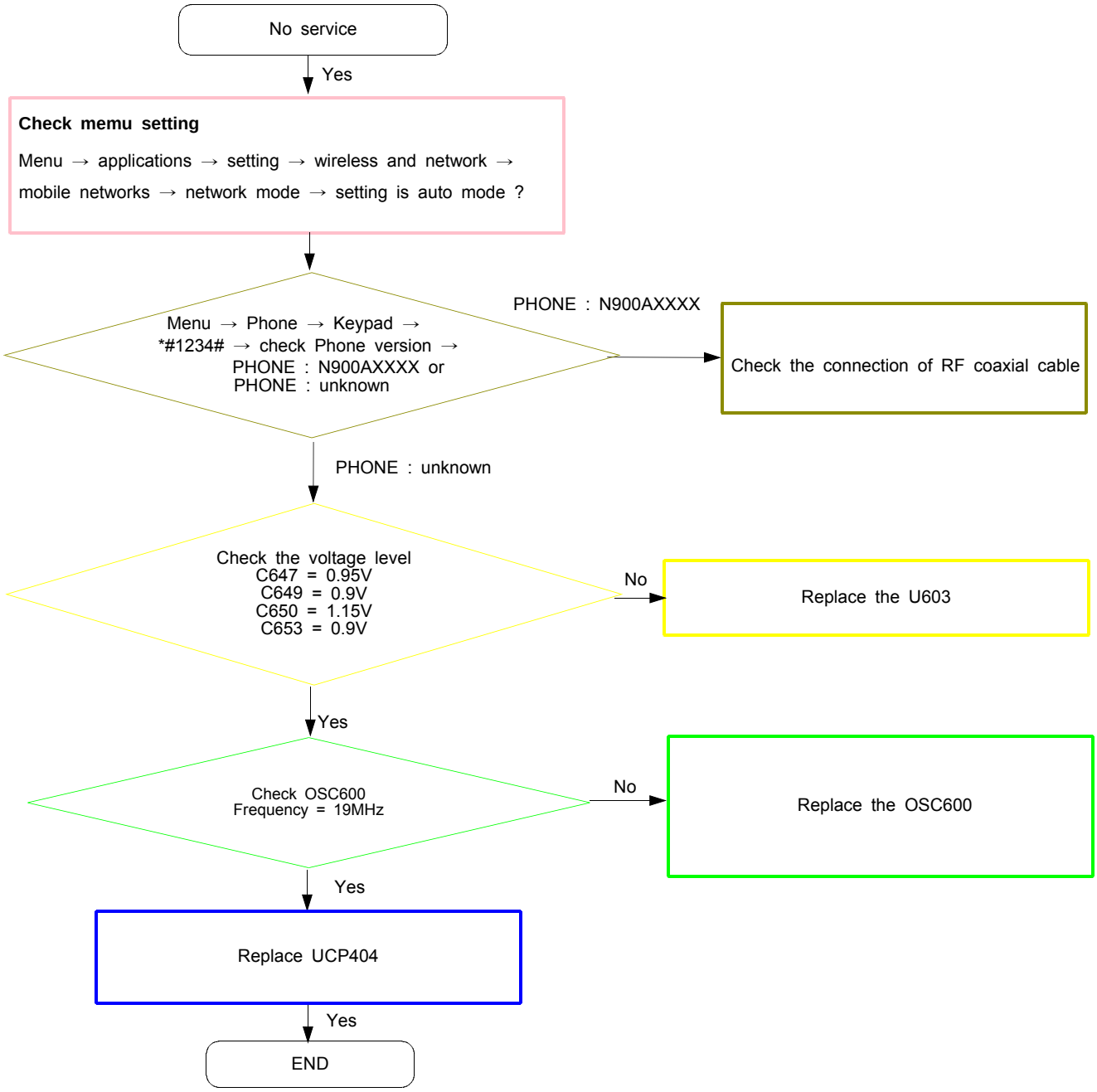
8-3-2. No Service


No service
Yes
Check memu setting
Menu → applications → setting → wireless and network → mobile networks → network mode → setting is auto mode ?
Menu → Phone → Keypad → *#1234# → check Phone version → PHONE : N900AXXXX or PHONE : unknown
PHONE : N900AXXXX
Check the connection of RF coaxial cable
PHONE : unknown
Check the voltage level
C647 = 0.95V
C649 = 0.9V
C650 = 1.15V
C653 = 0.9V
No
Replace the U603
Yes
Check OSC600 Frequency = 19MHz
No
Replace the OSC600
Yes
Replace UCP404
Yes
END

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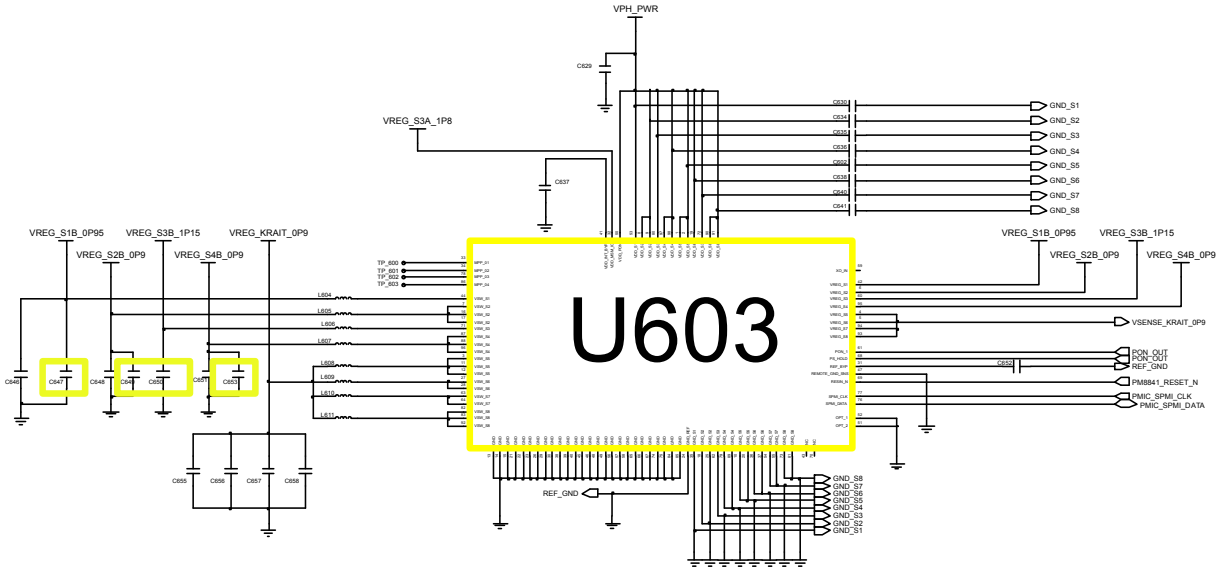

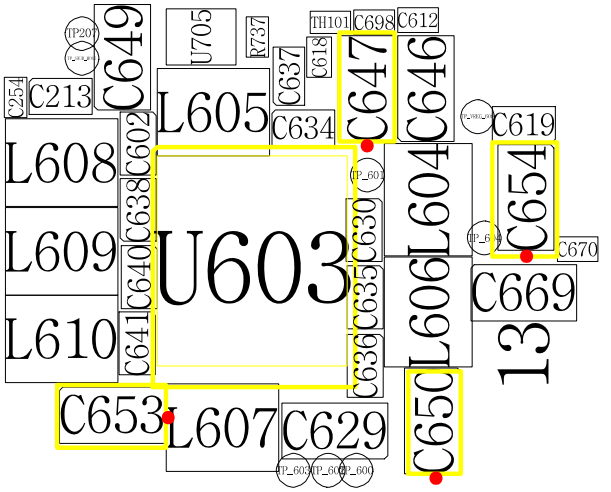

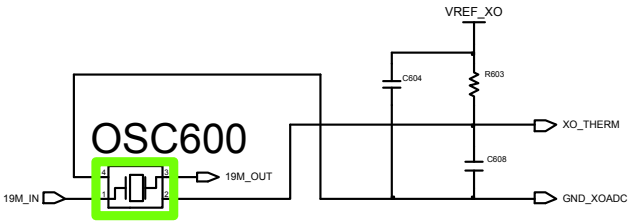

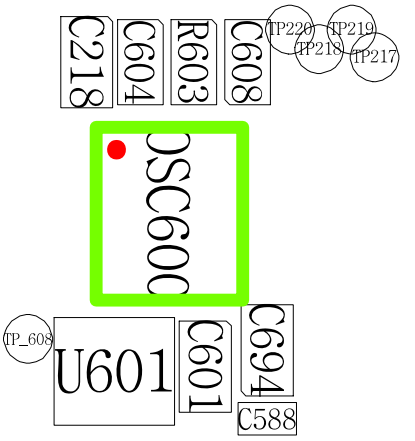

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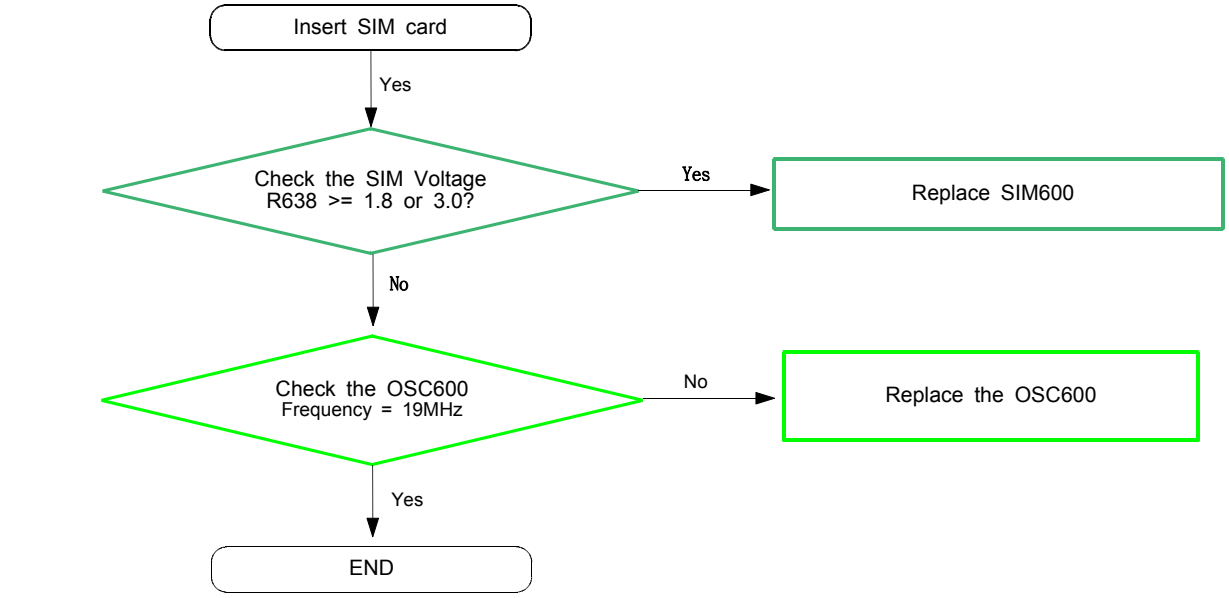
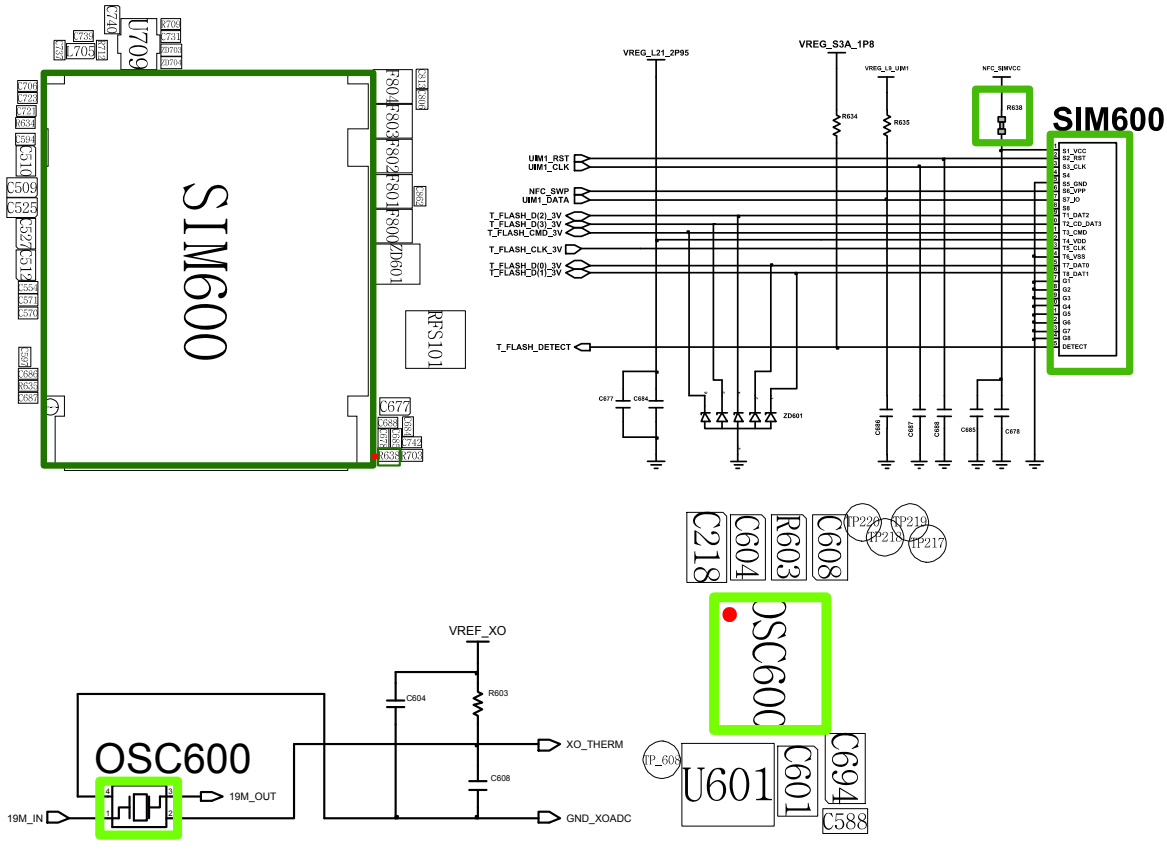
8-3-3. Sim Part





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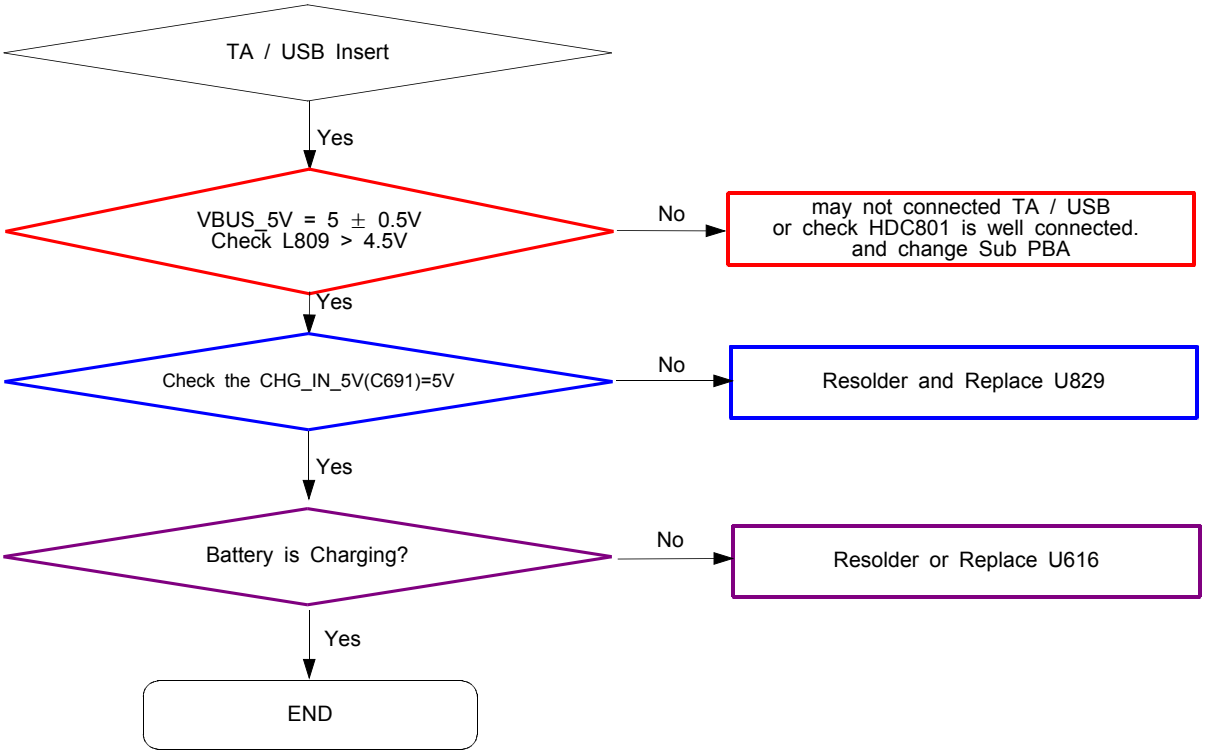
8-3-4. Charging Part



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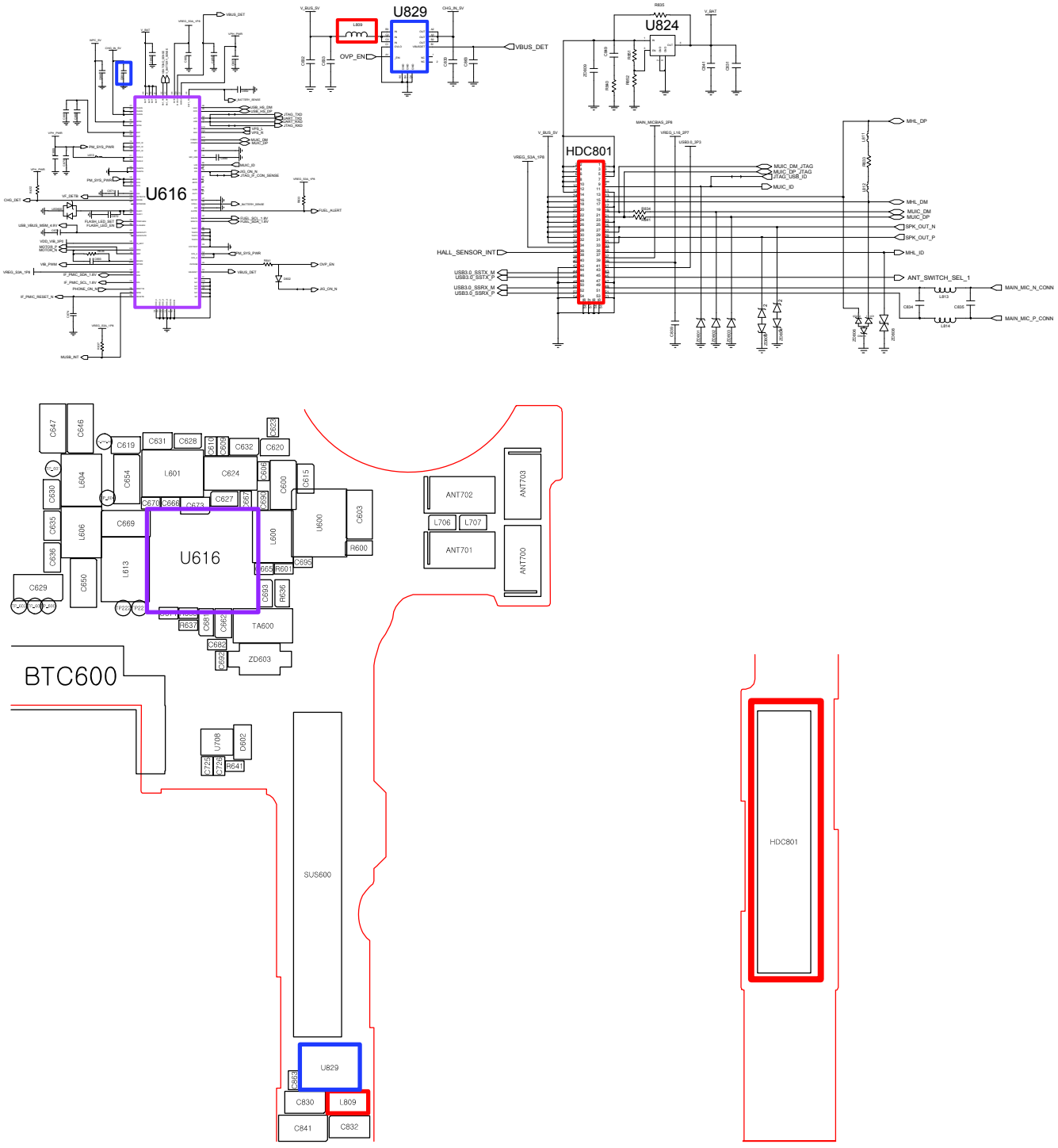

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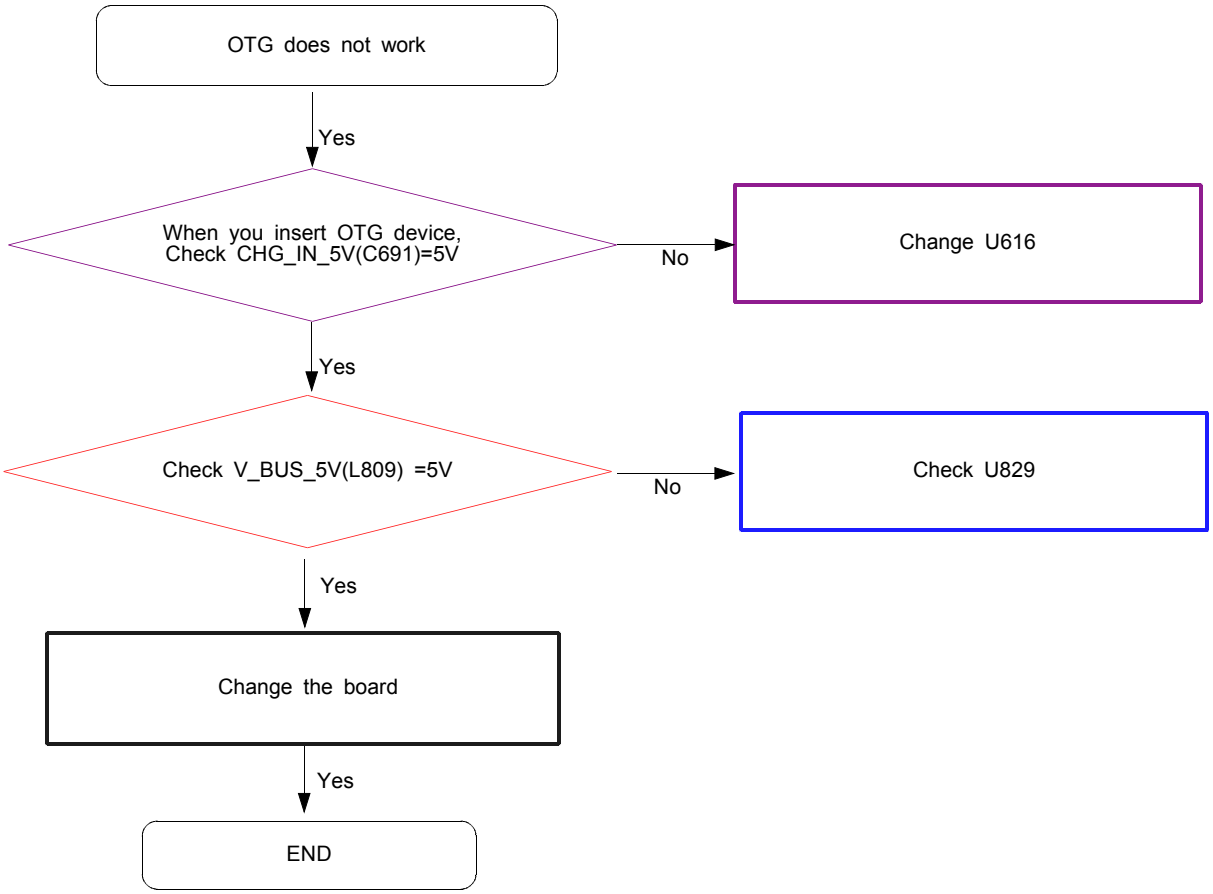
8-3-5. OTG



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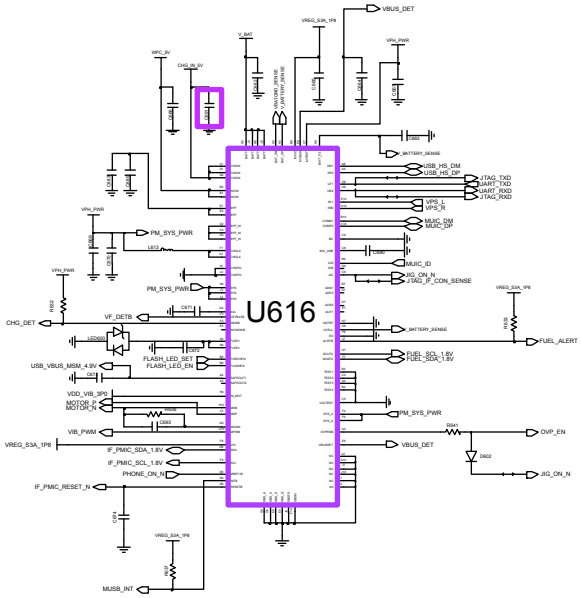

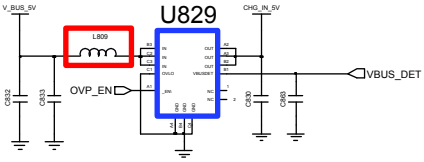

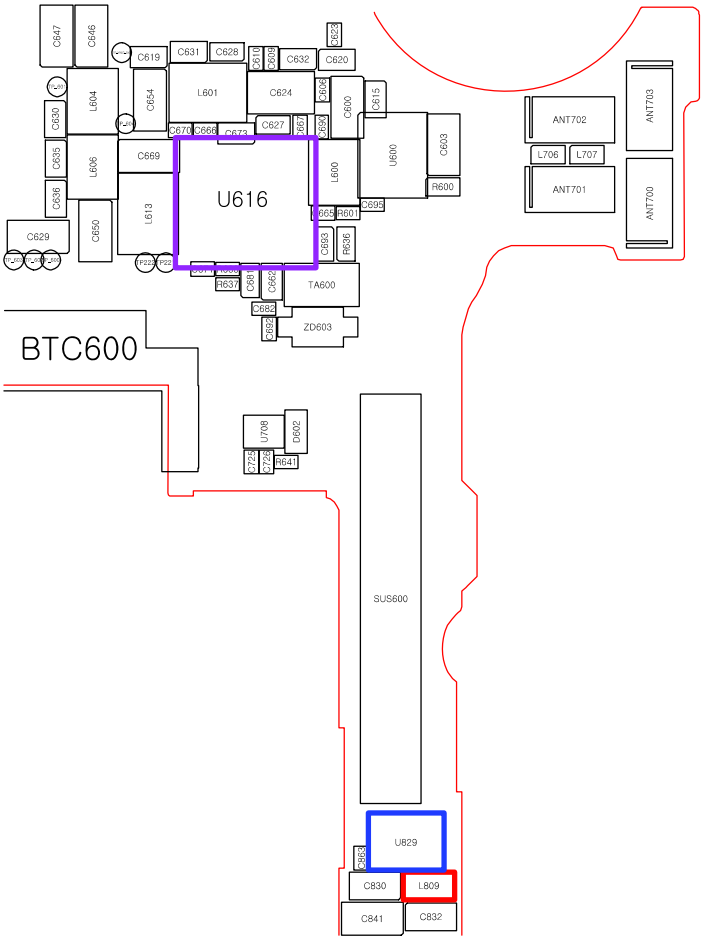

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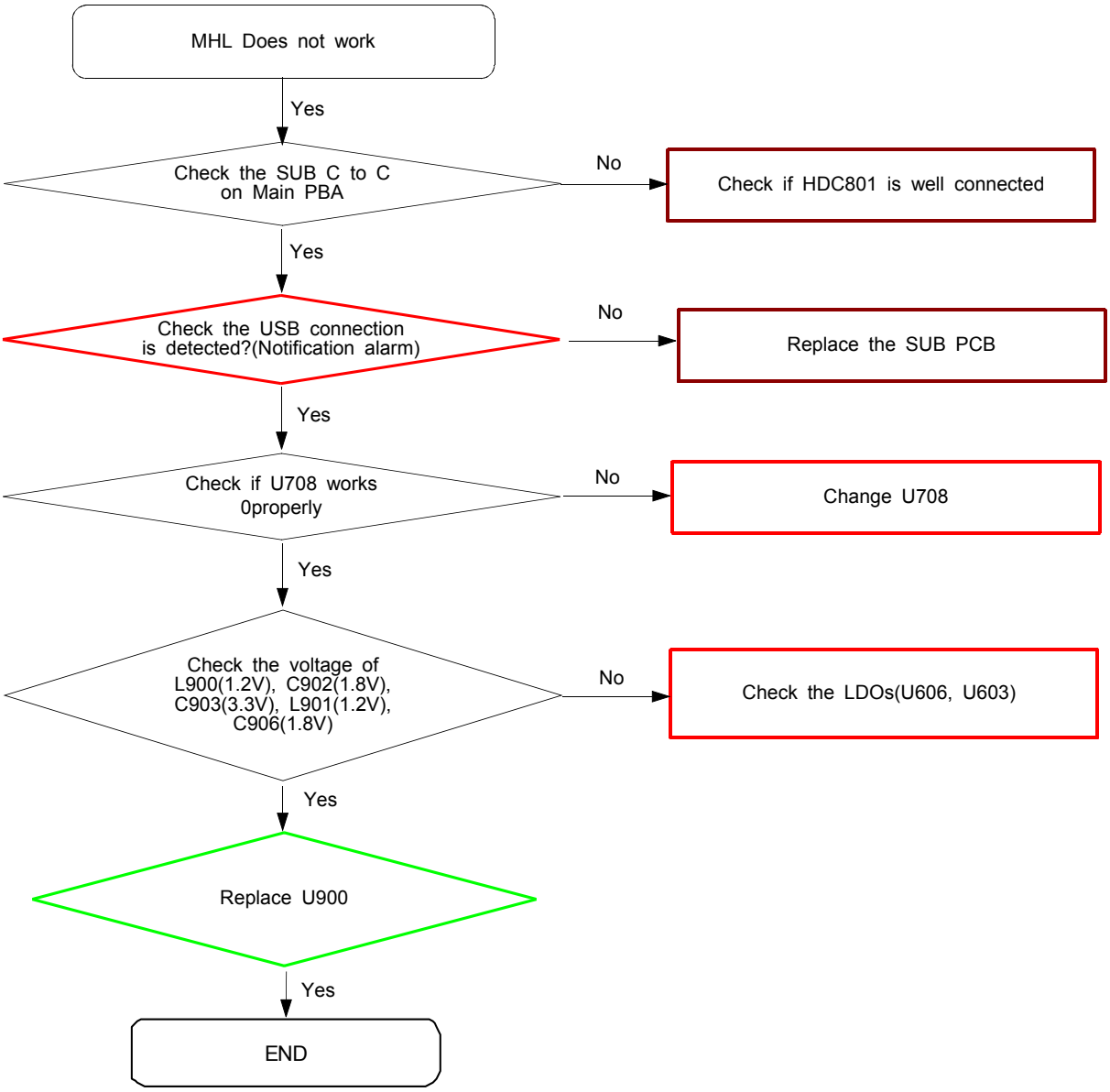
8-3-6. MHL



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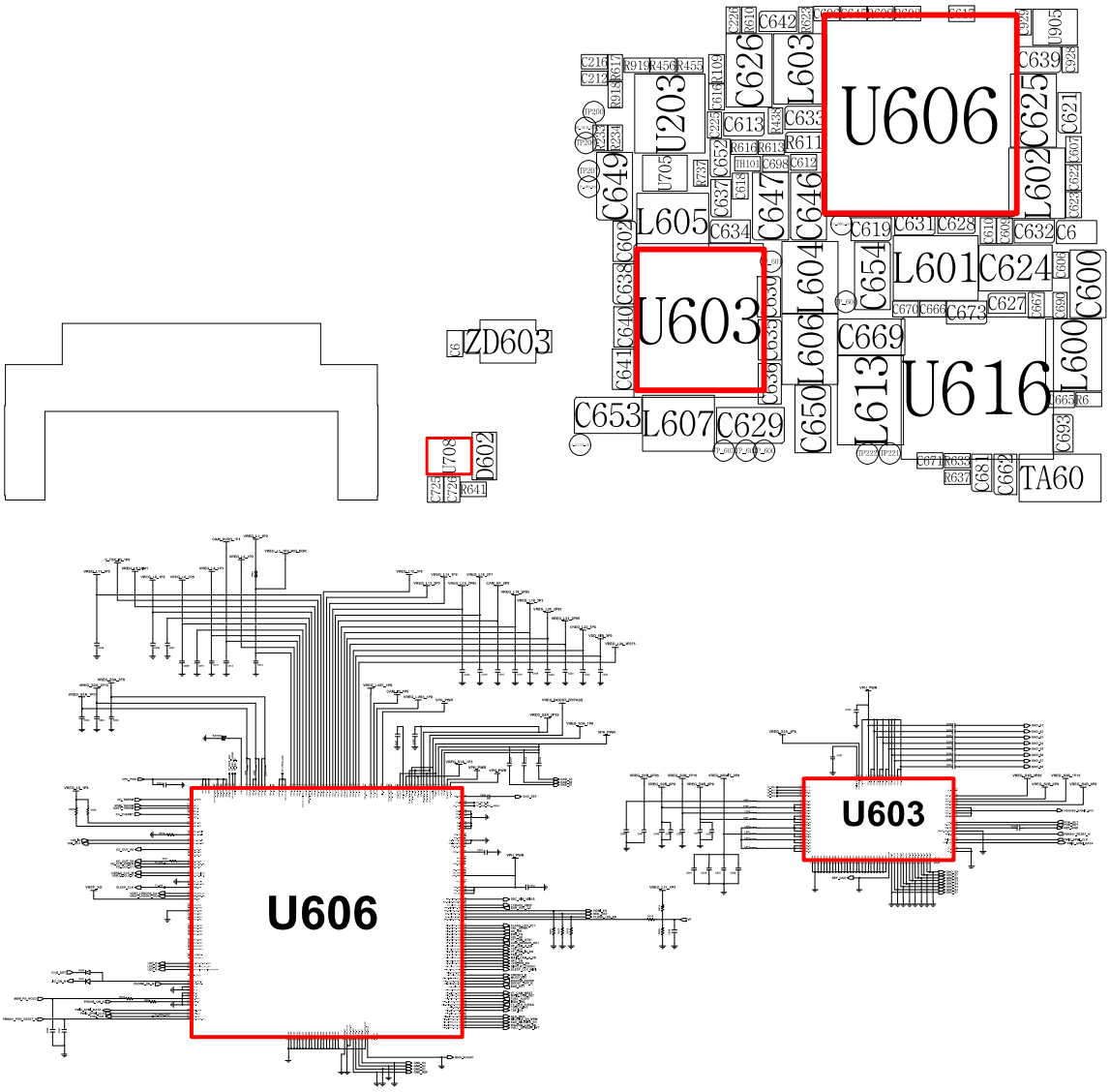

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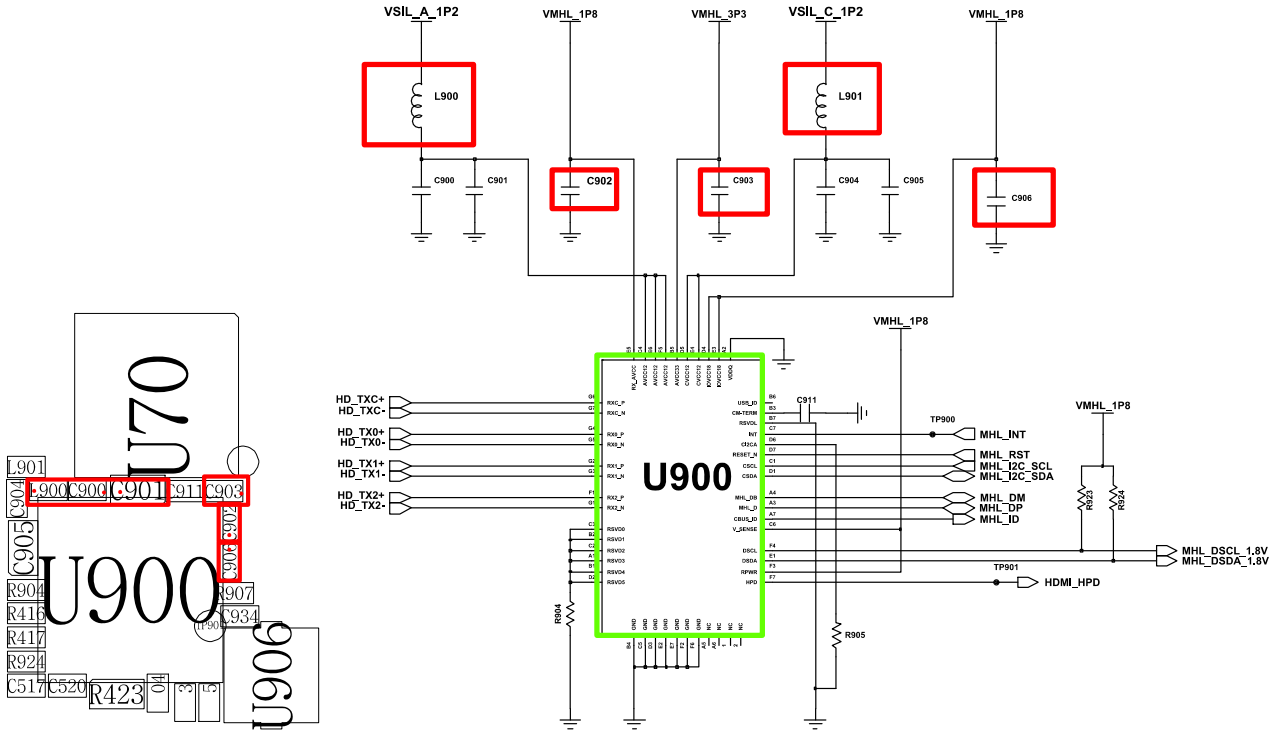

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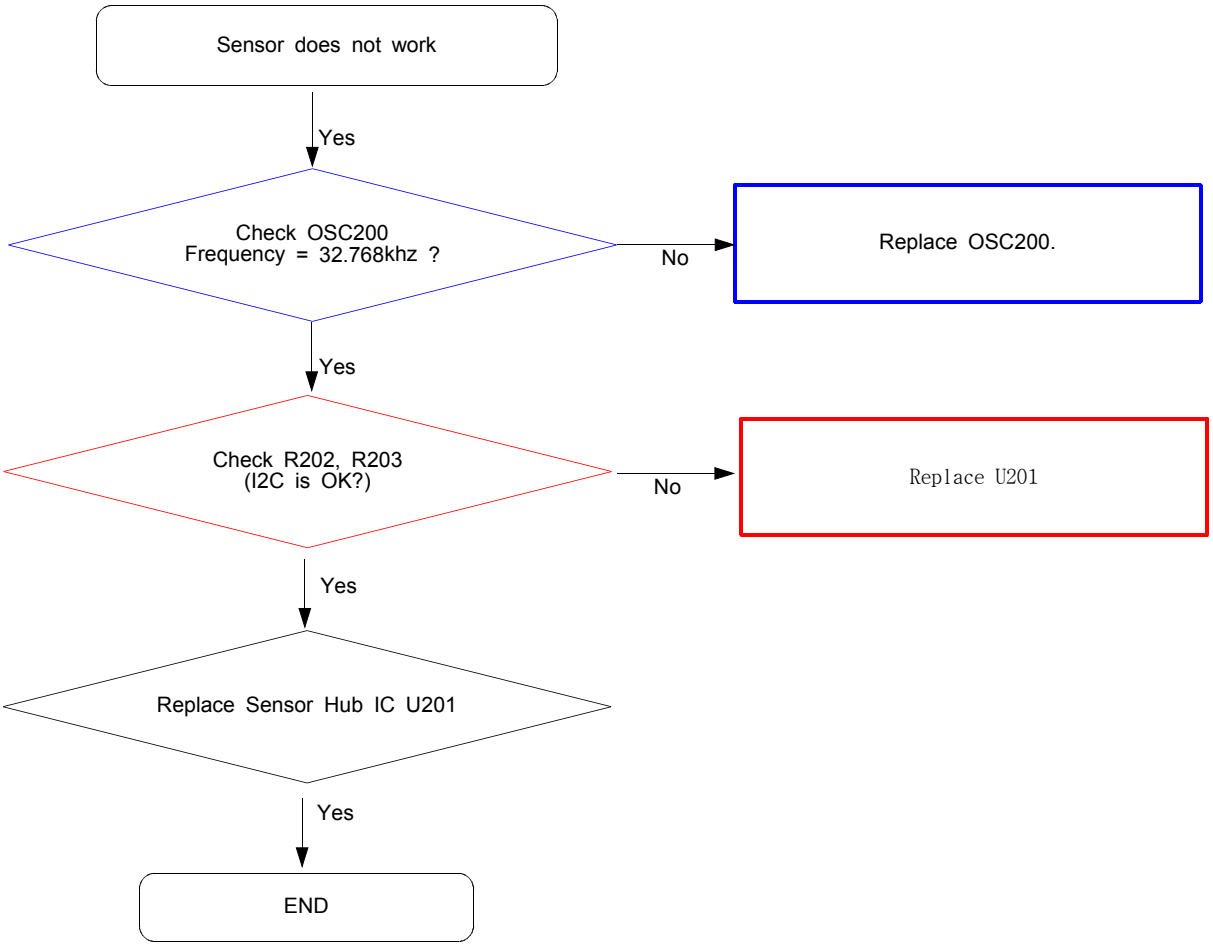
8-3-7. Sensor HUB



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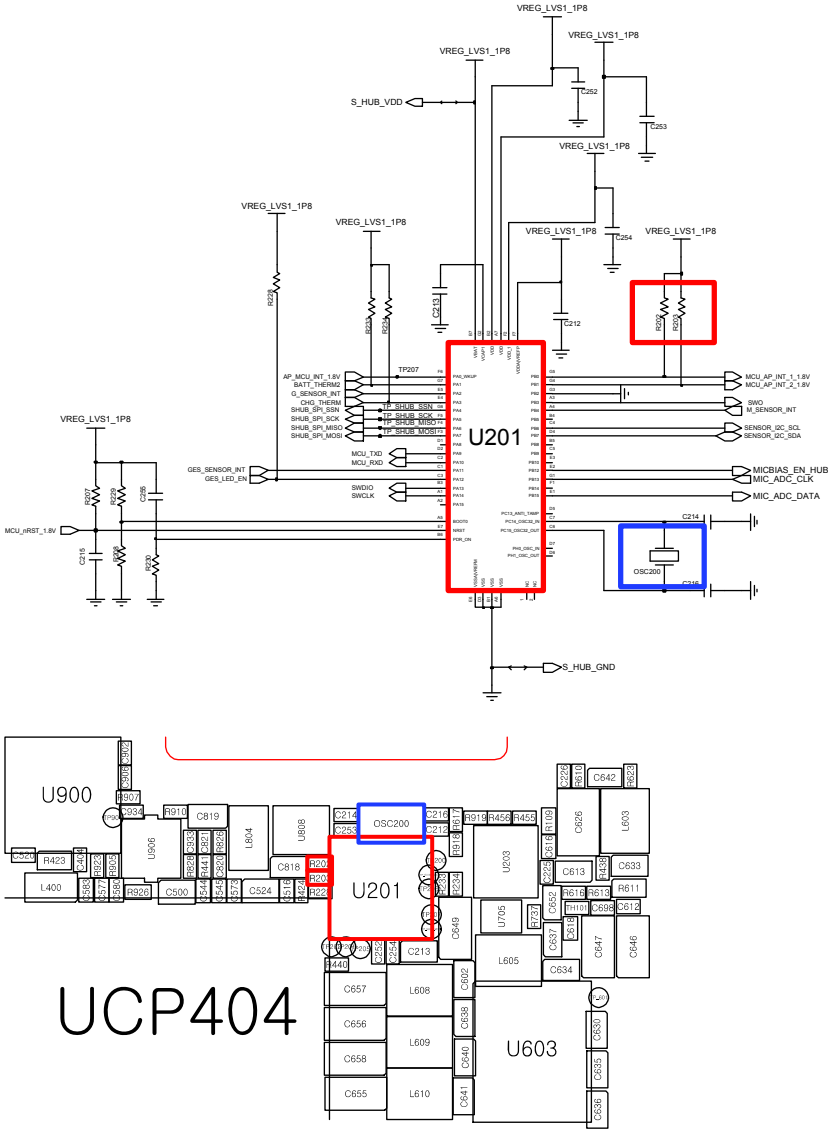

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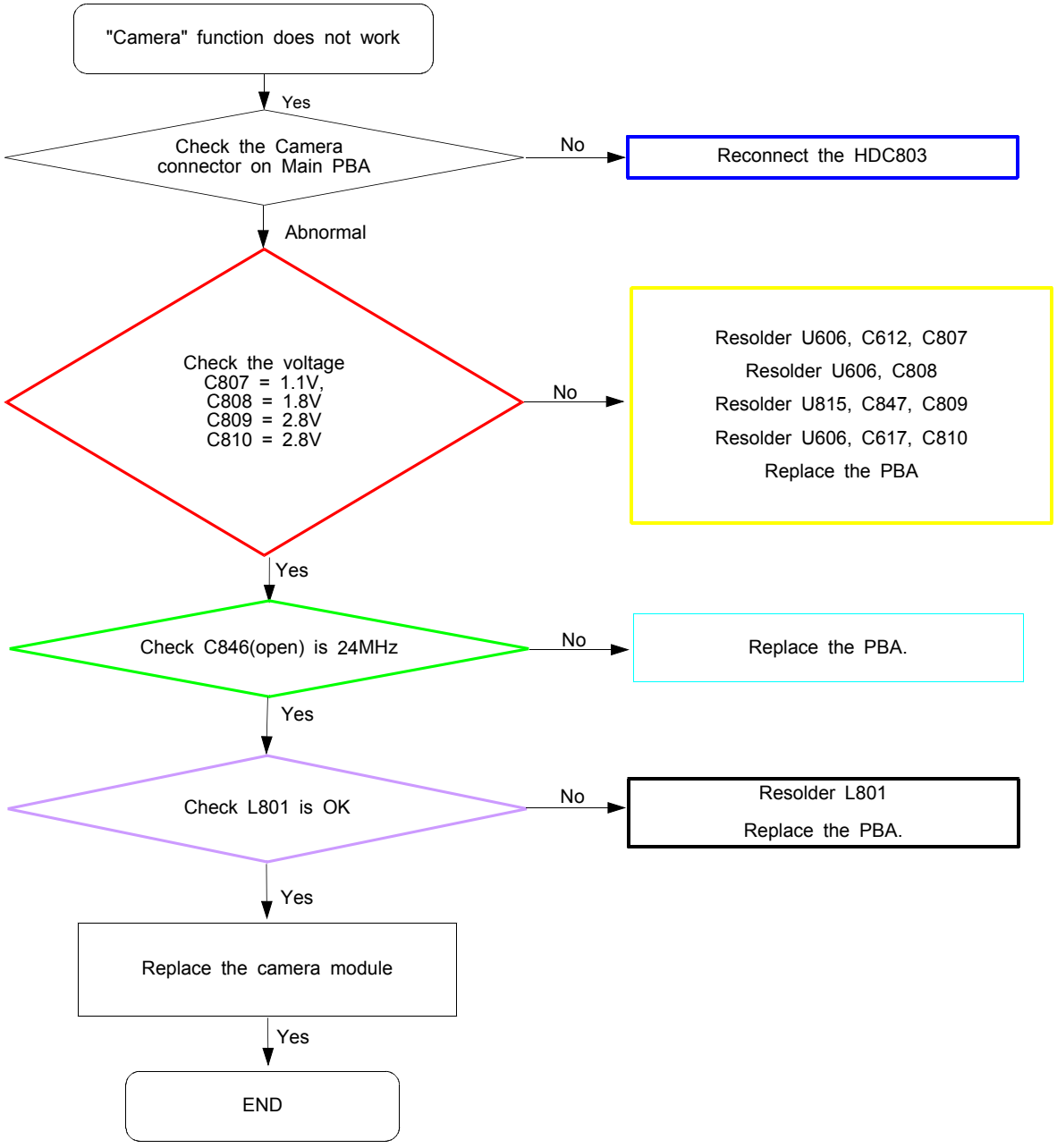
8-3-8. 13M Camera



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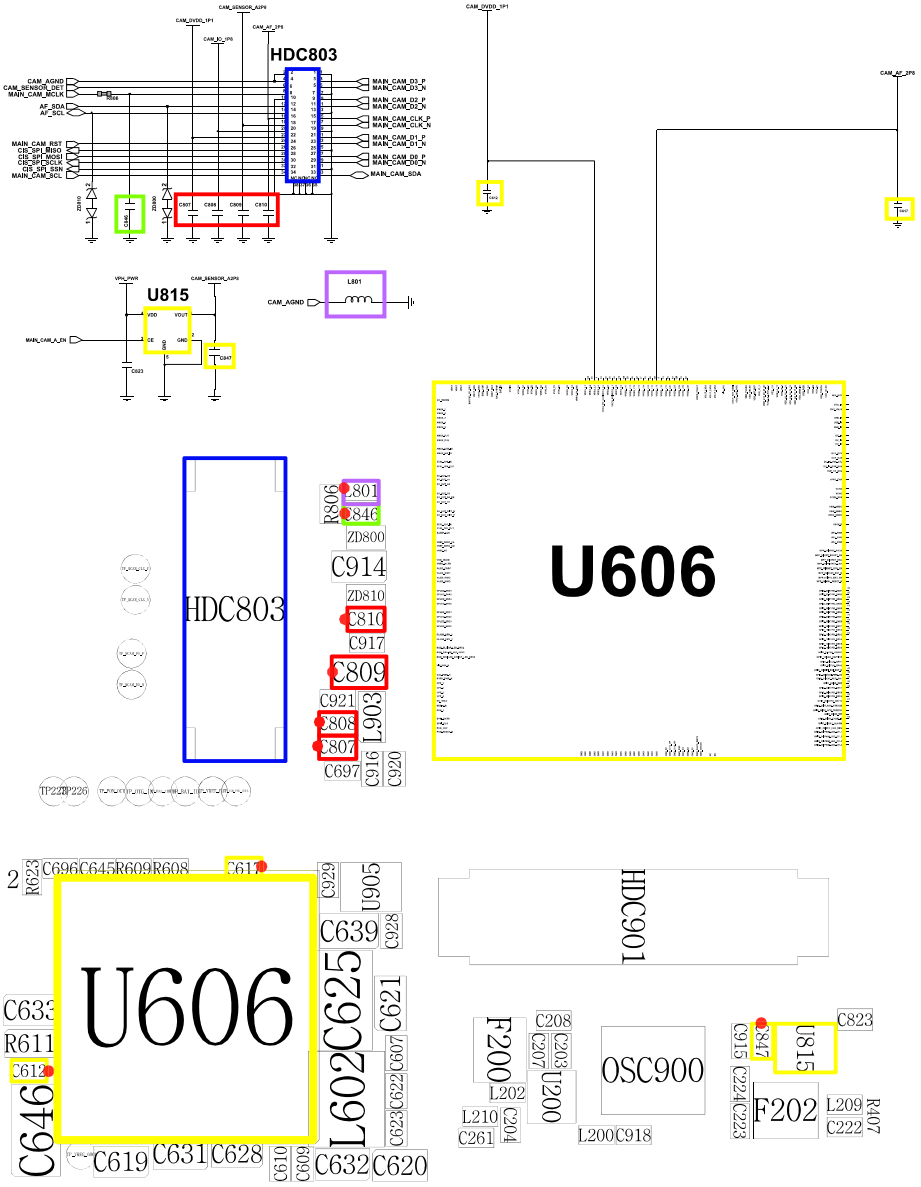

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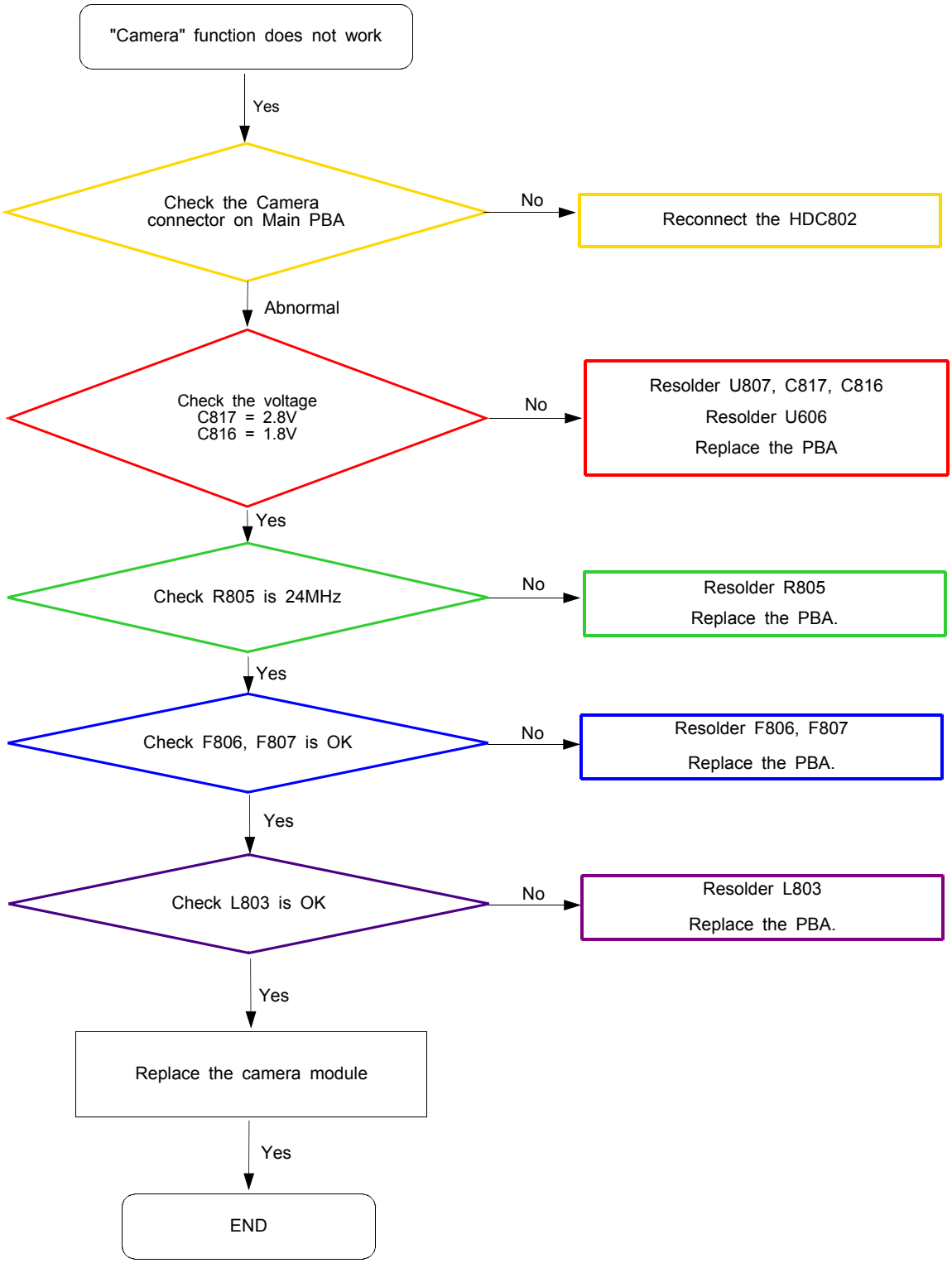
8-3-9. VT CAM



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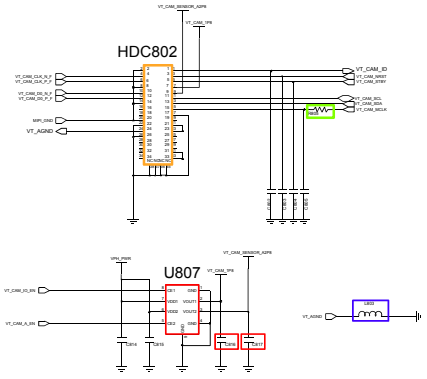

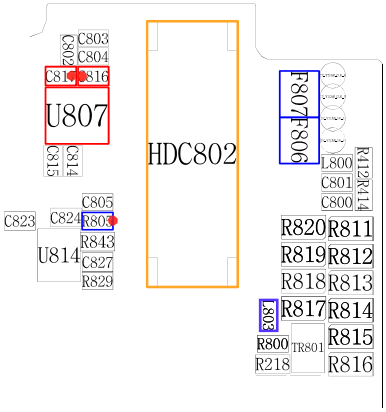

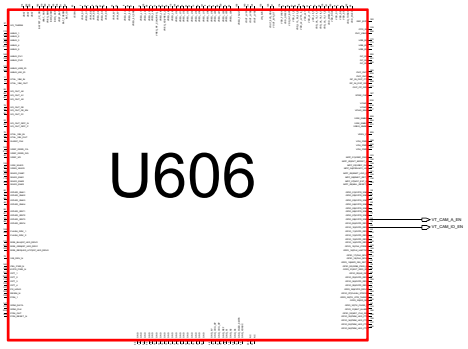

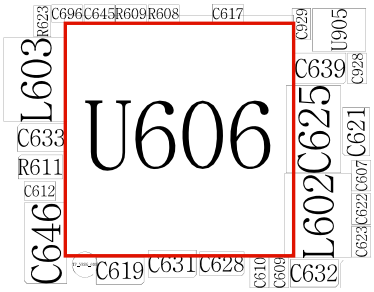

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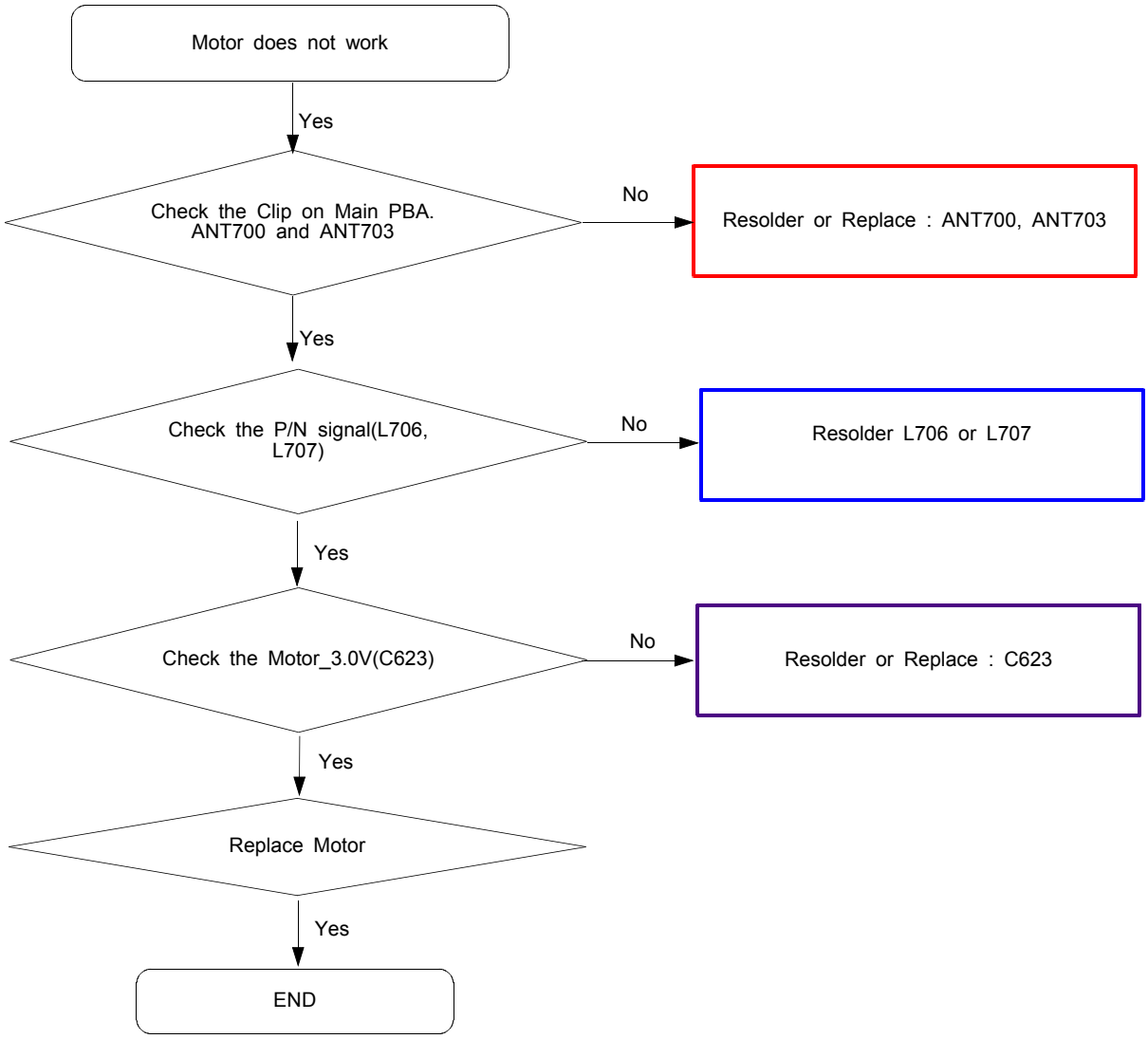
8-3-10. Motor



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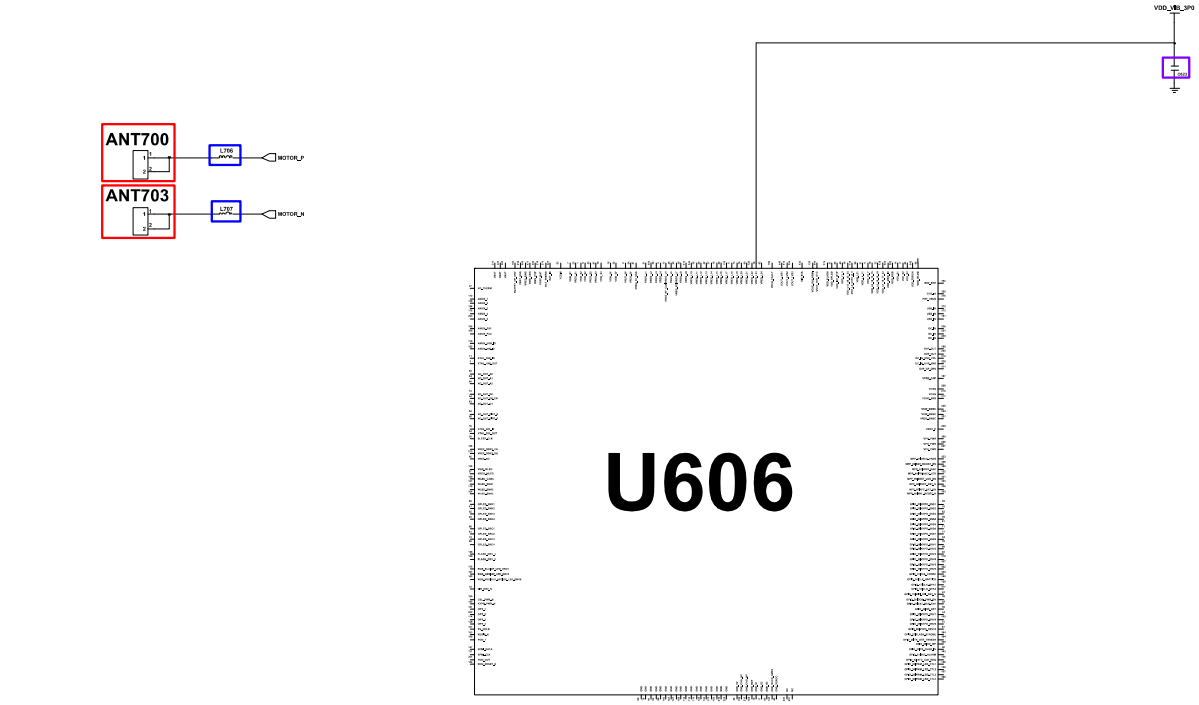

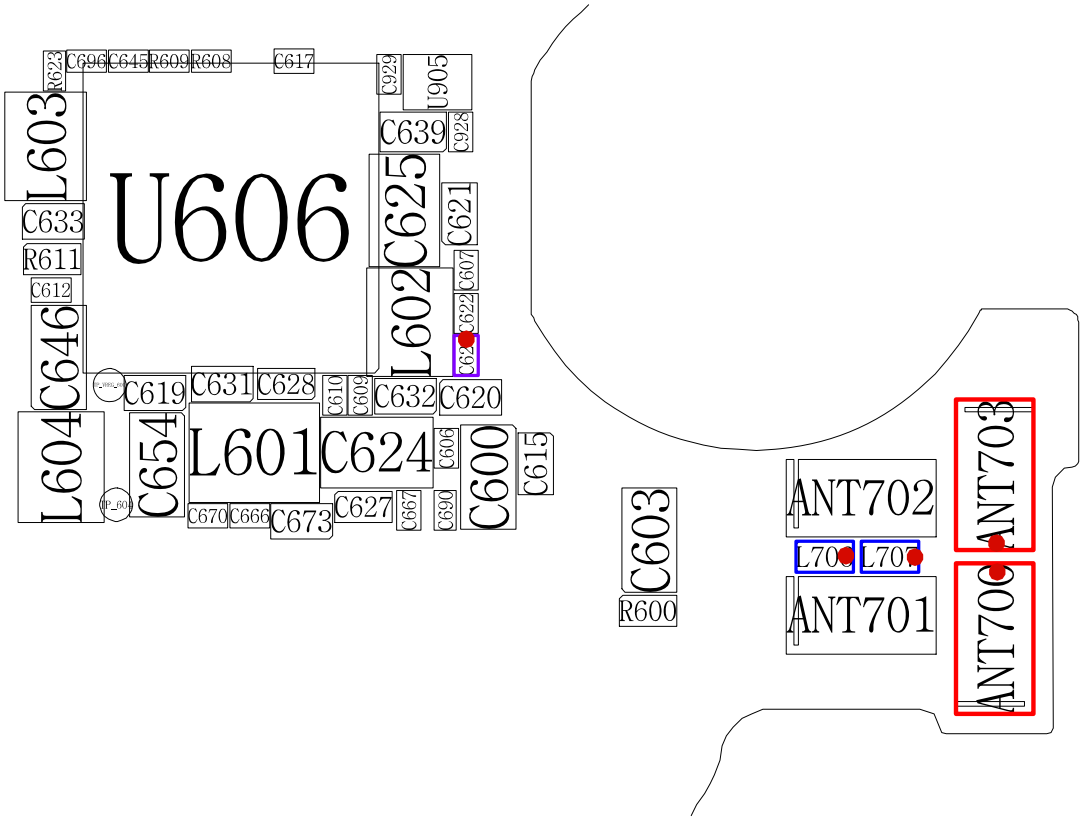

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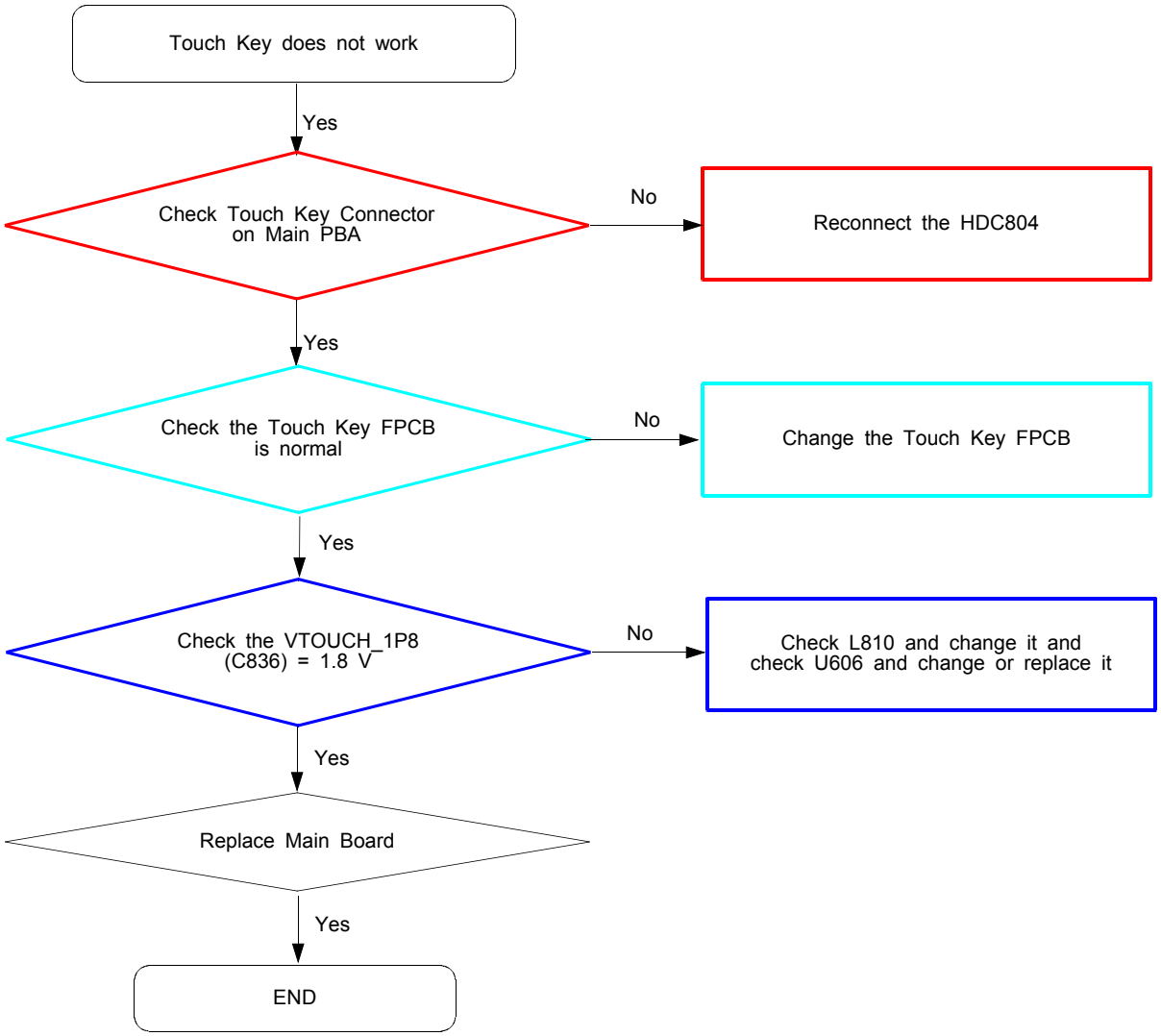
8-3-11. Touch Key



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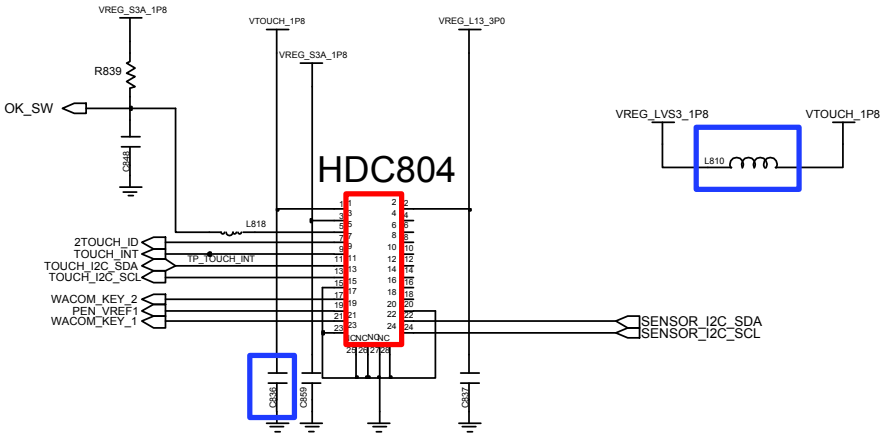

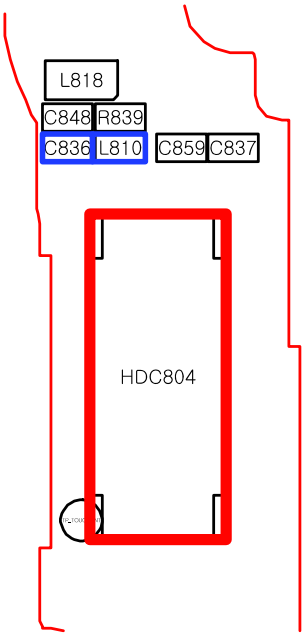

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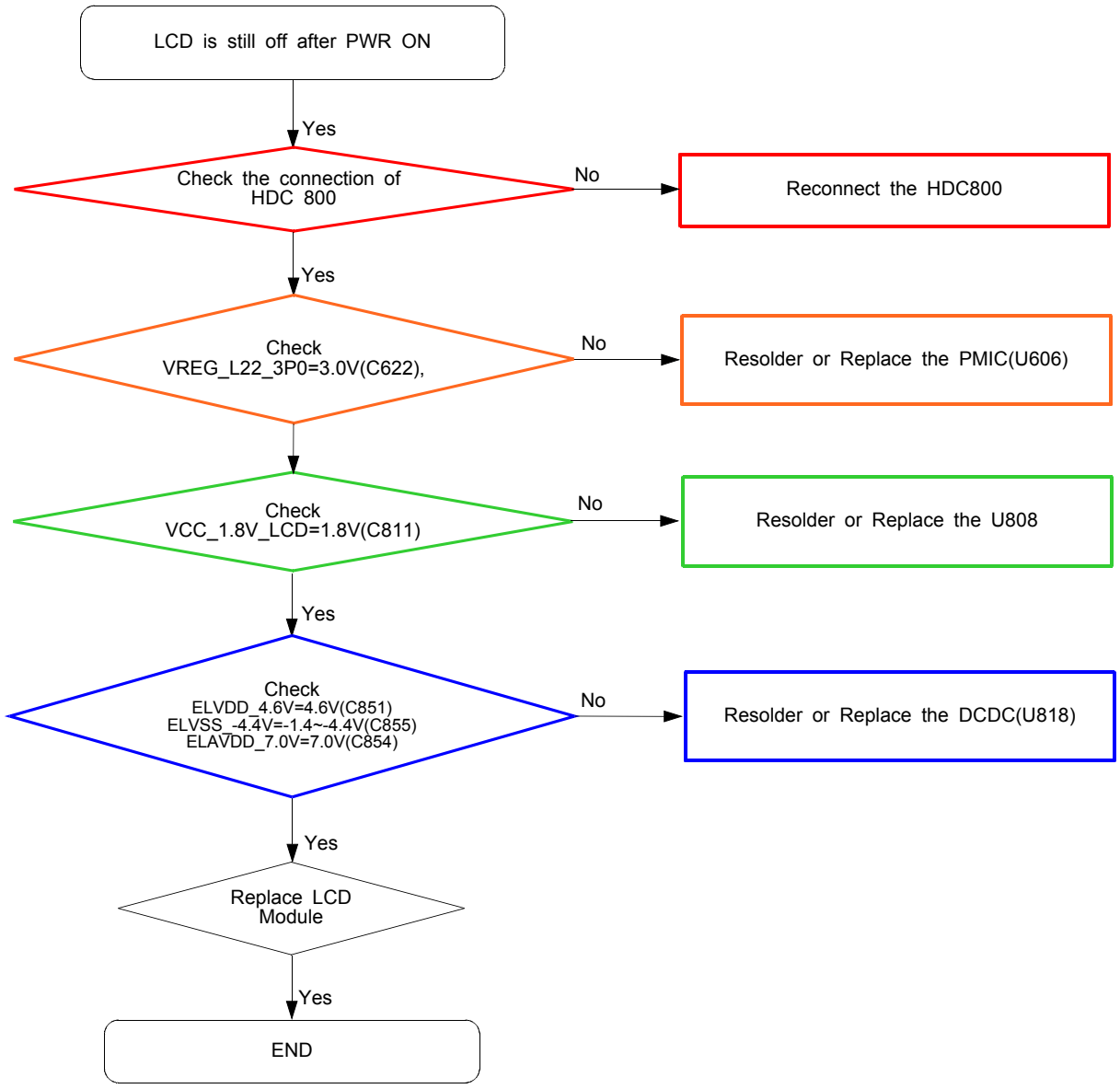
8-3-12. LCD



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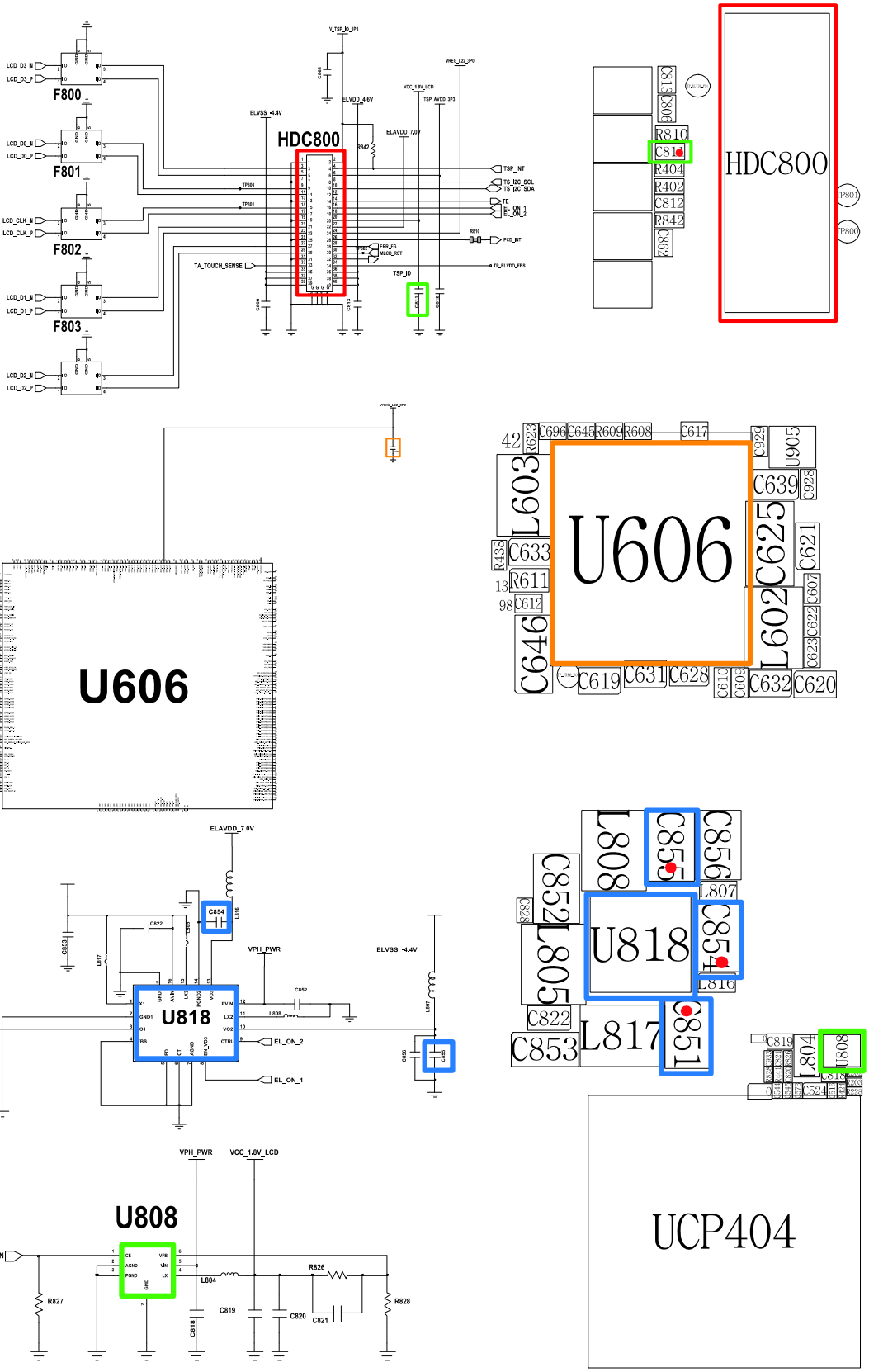

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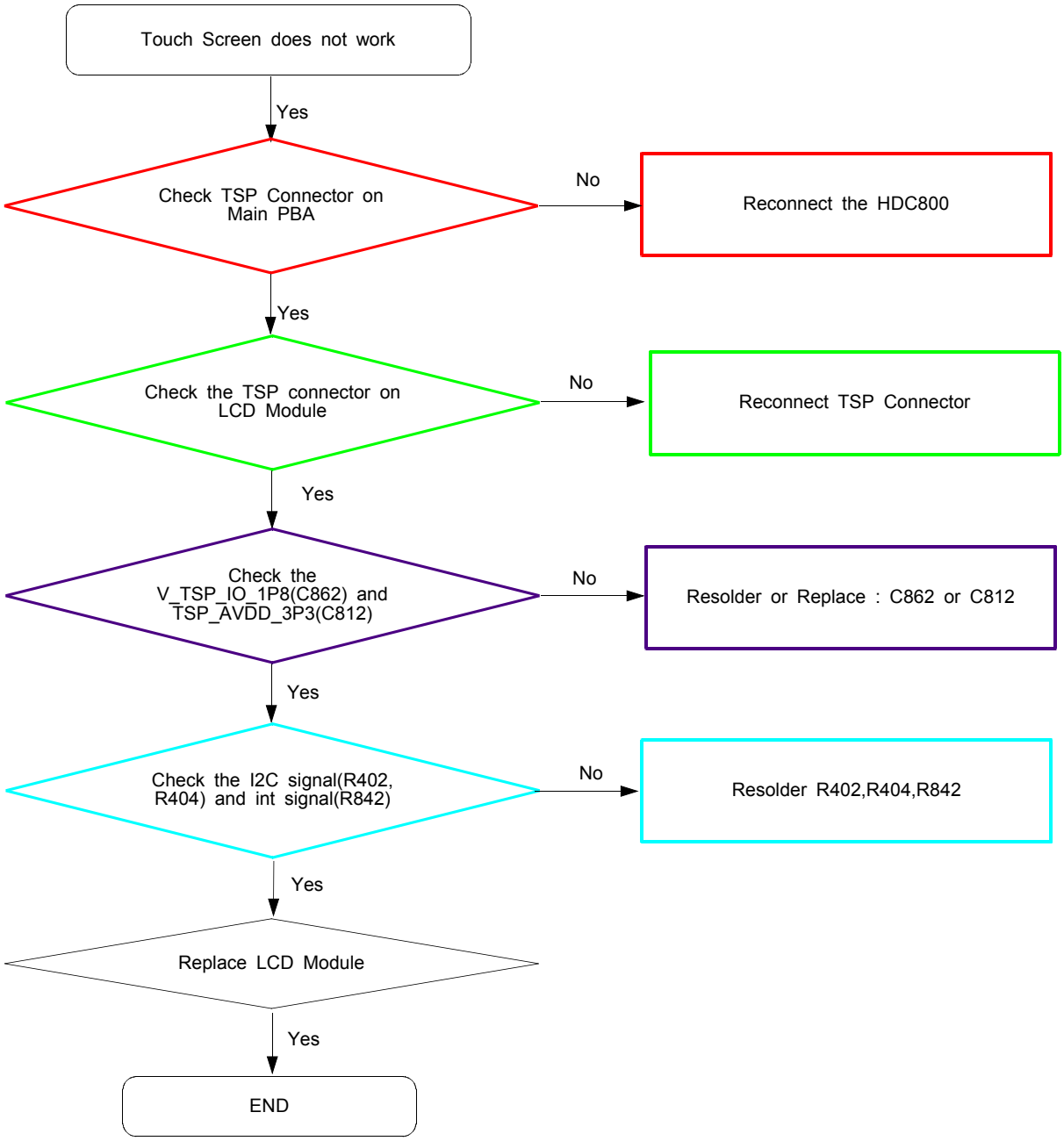
8-3-13. TSP



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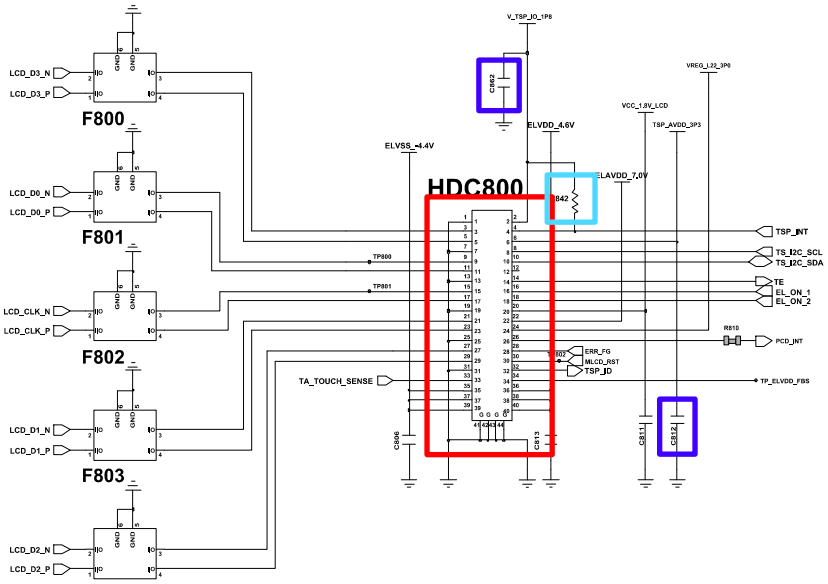

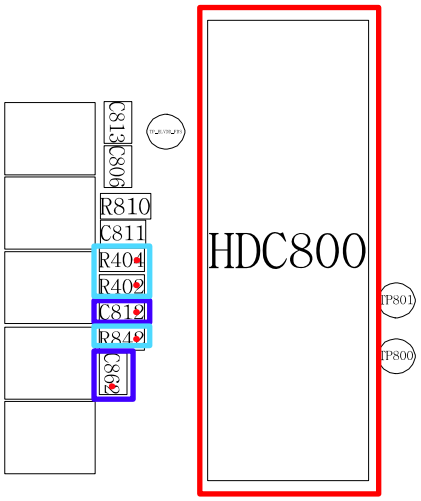

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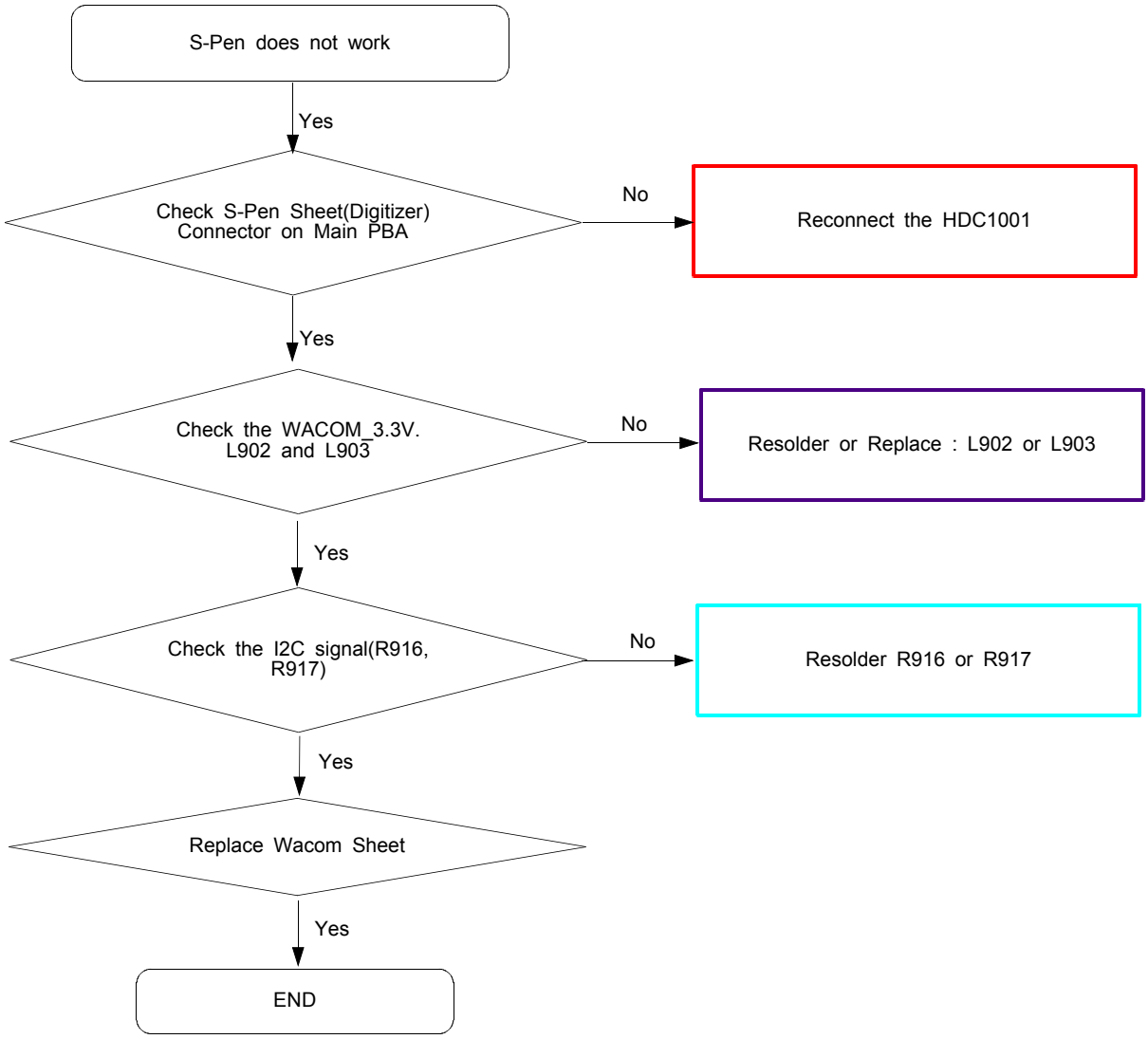
8-3-14. S-PEN



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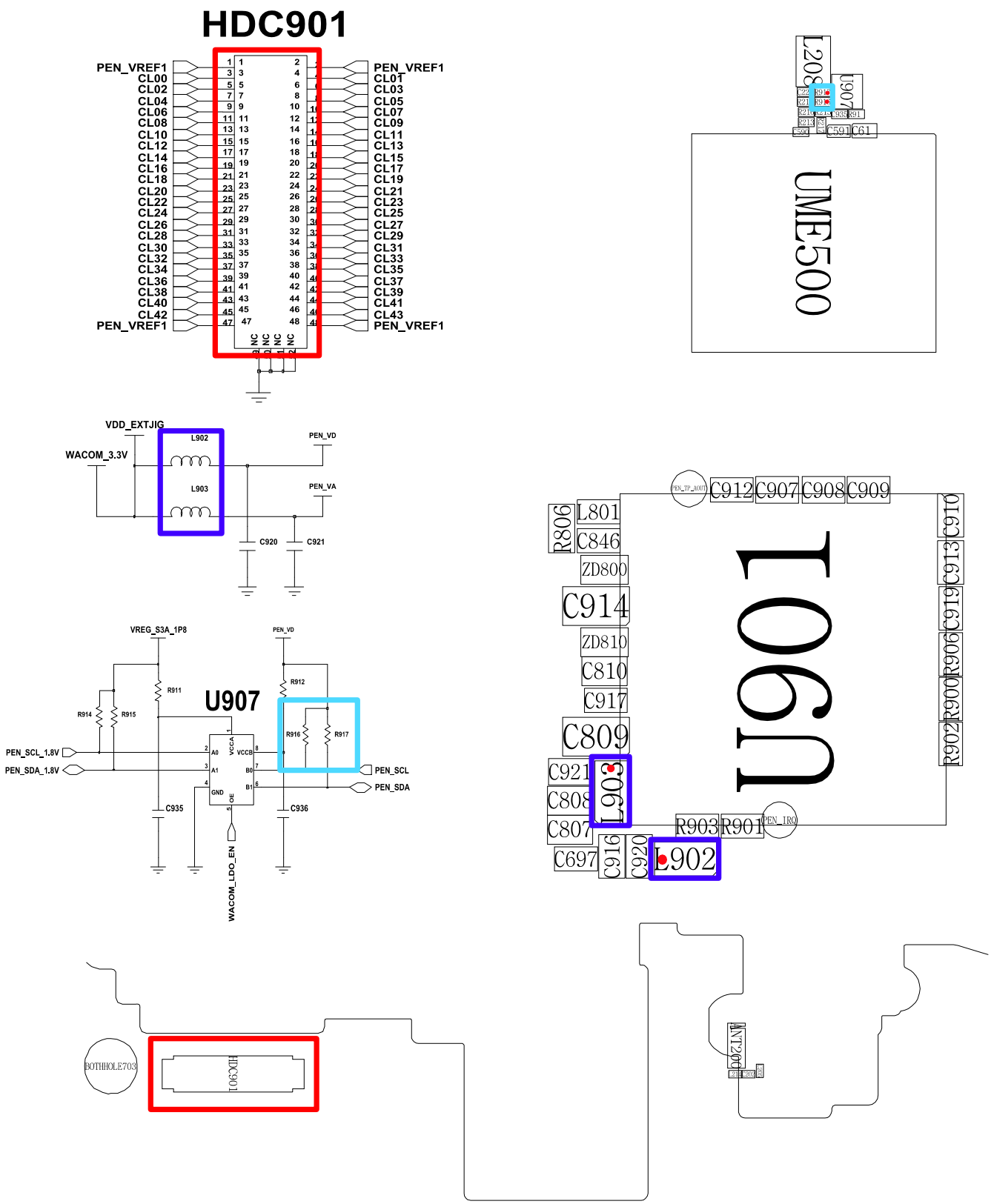

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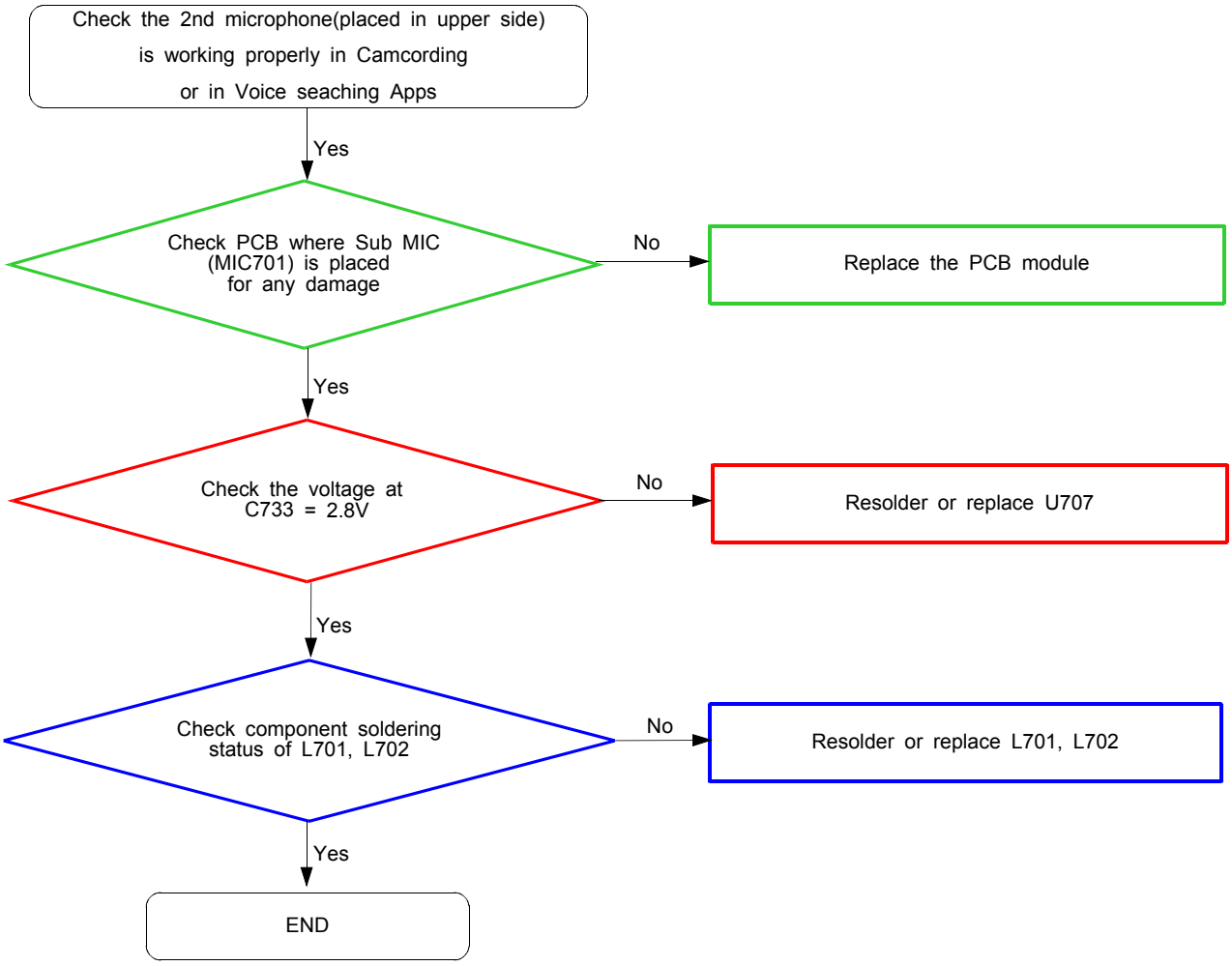
8-3-15-1. Microphone Part (Main Mic.)



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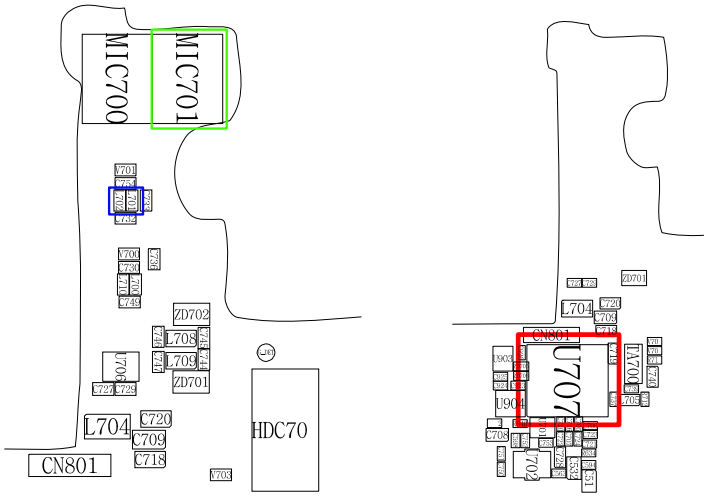

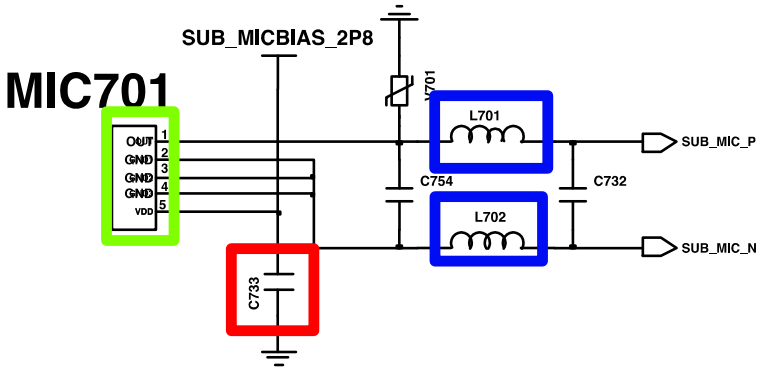

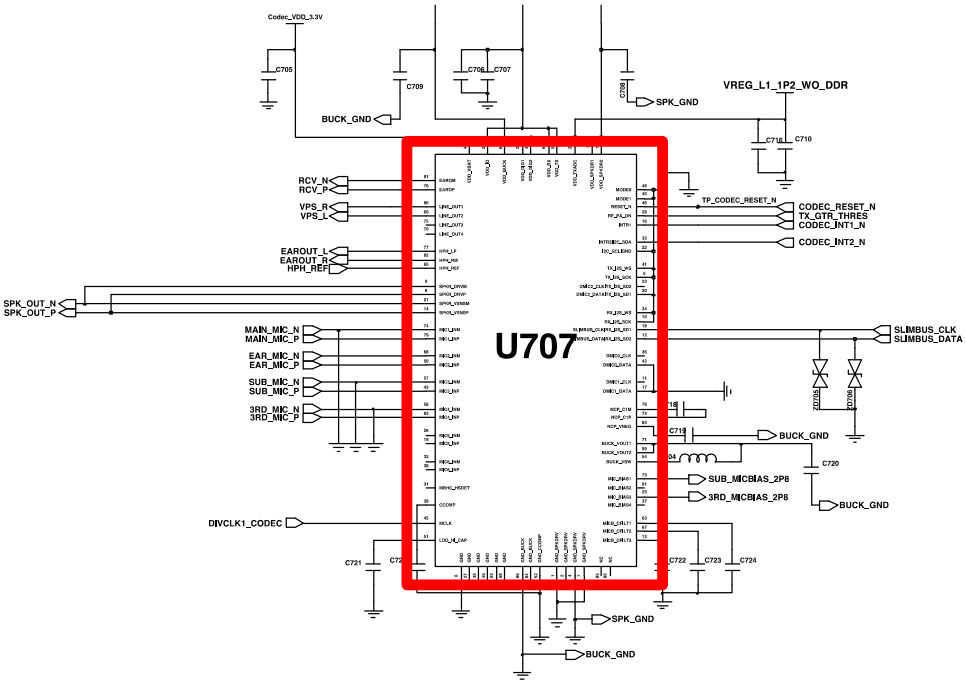

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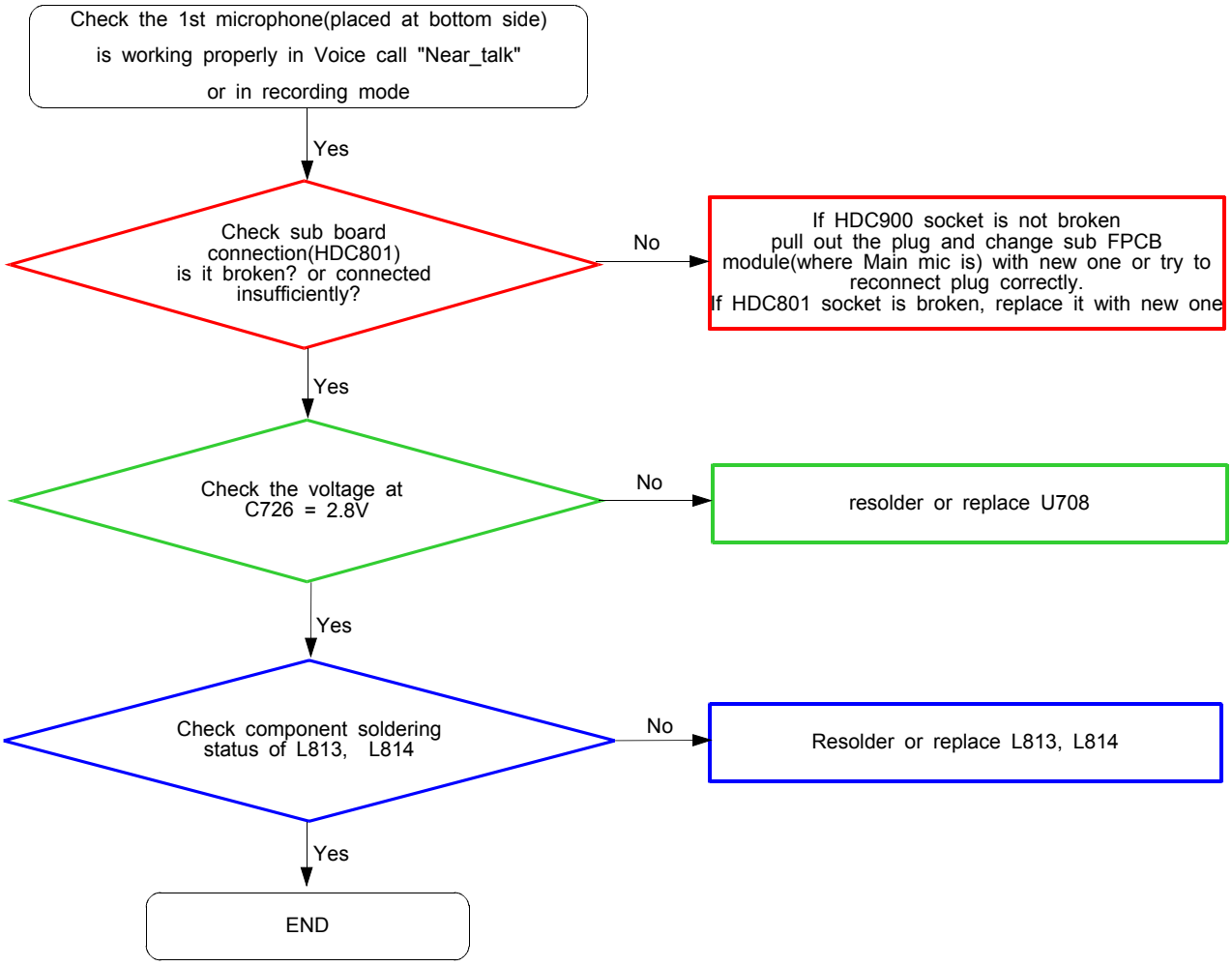
8-3-15-2 Microphone Part (Sub Mic.)


Check the 1st microphone(placed at bottom side) is working properly in Voice call "Near_talk" or in recording mode
Yes
Check sub board connection(HDC801) is it broken? or connected insufficiently?
No
If HDC900 socket is not broken pull out the plug and change sub FPCB module(where Main mic is) with new one or try to reconnect plug correctly.
If HDC801 socket is broken, replace it with new one
Yes
Check the voltage at C726 = 2.8V
No
resolder or replace U708
Yes
Check component soldering status of L813, L814
No
Resolder or replace L813, L814
Yes
END

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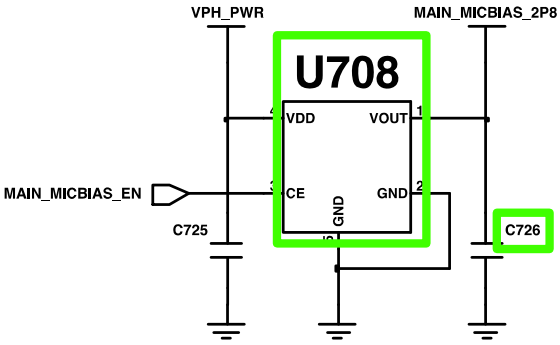

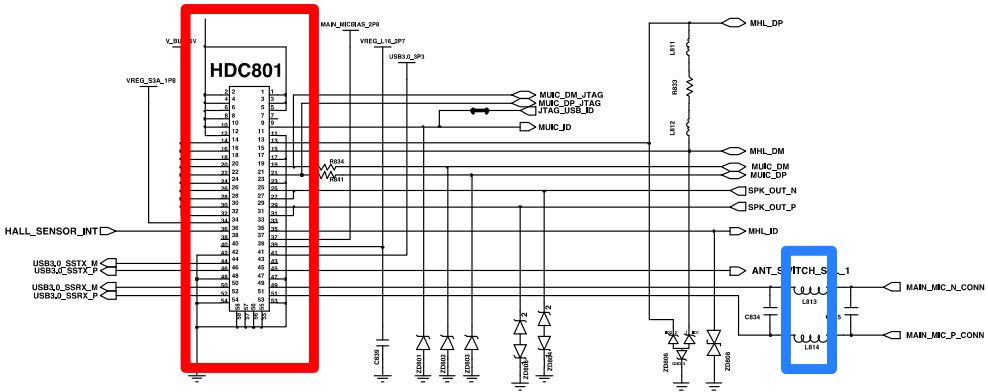

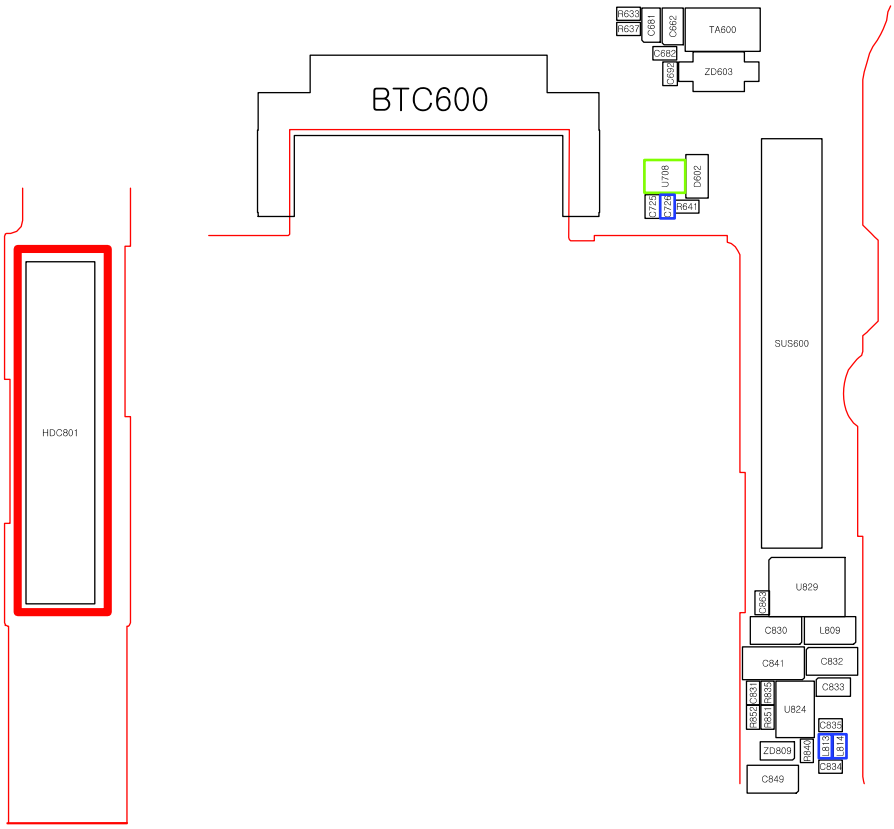

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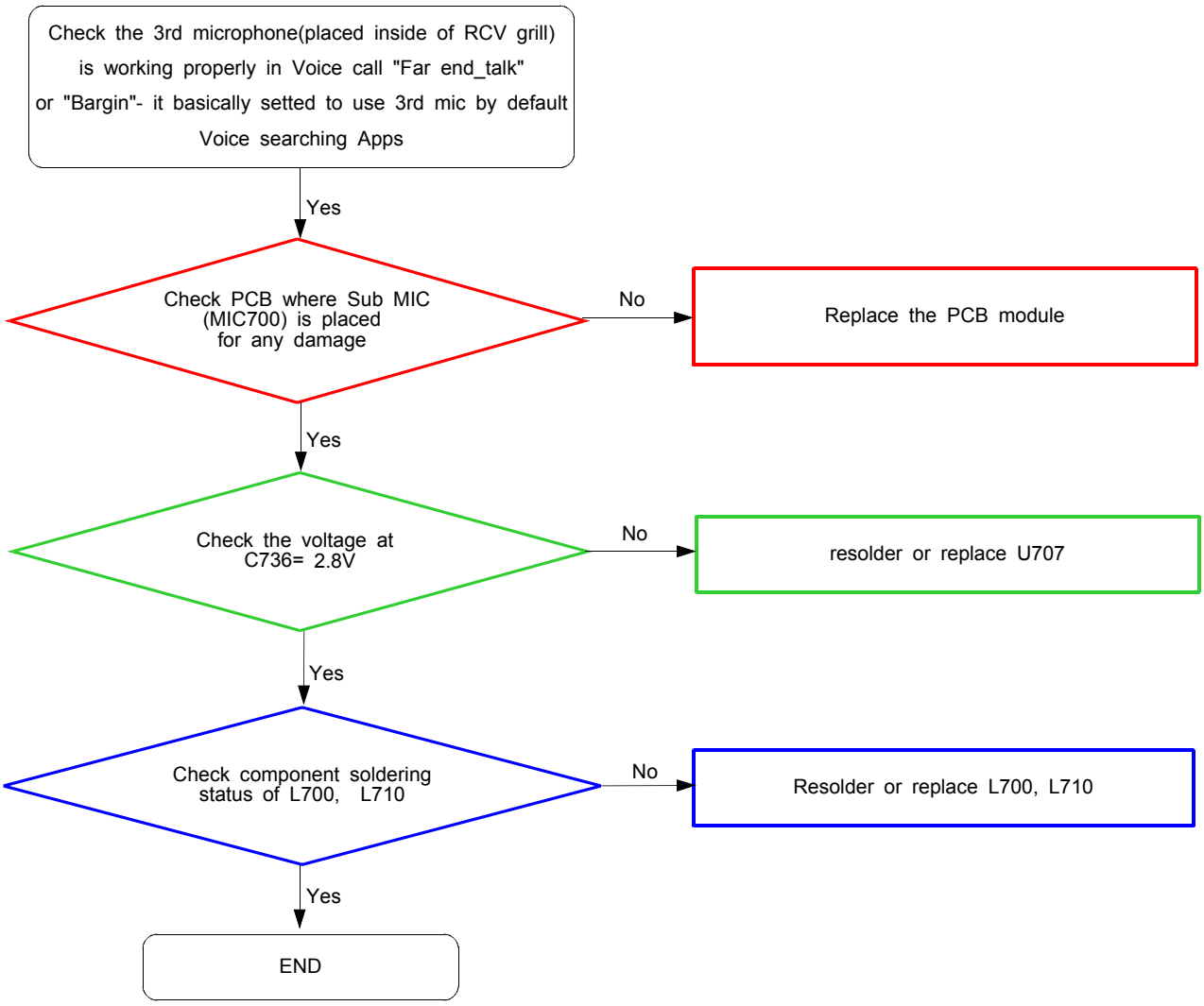
8-3-15-3 Microphone Part (3rd Mic.)


Check the 3rd microphone(placed inside of RCV grill) is working properly in Voice call "Far end_talk" or "Bargin"- it basically setted to use 3rd mic by default Voice searching Apps
Yes
Check PCB where Sub MIC (MIC700) is placed for any damage
No
Replace the PCB module
Yes
Check the voltage at C736= 2.8V
No
resolder or replace U707
Yes
Check component soldering status of L700, L710
No
Resolder or replace L700, L710
Yes
END

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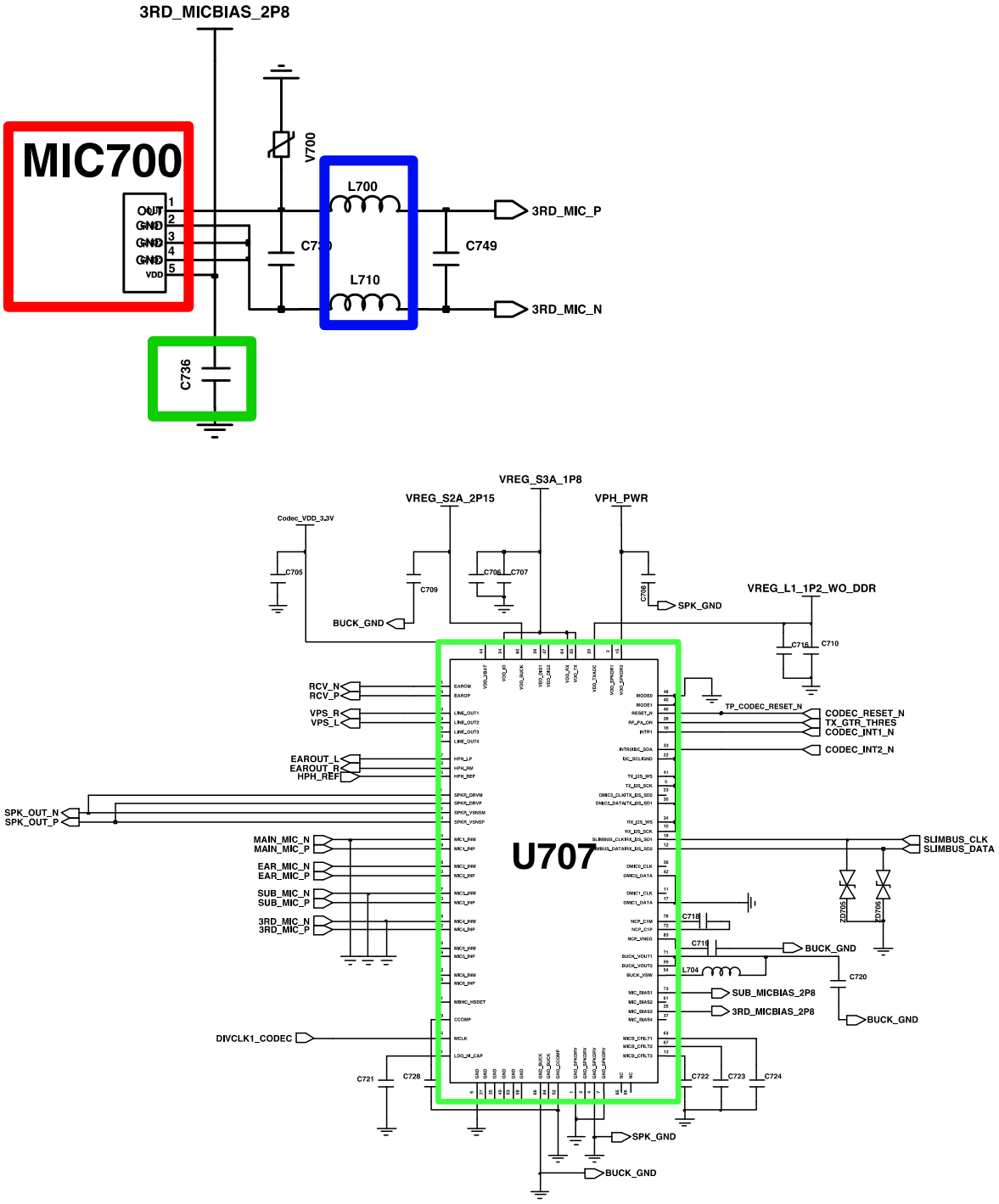

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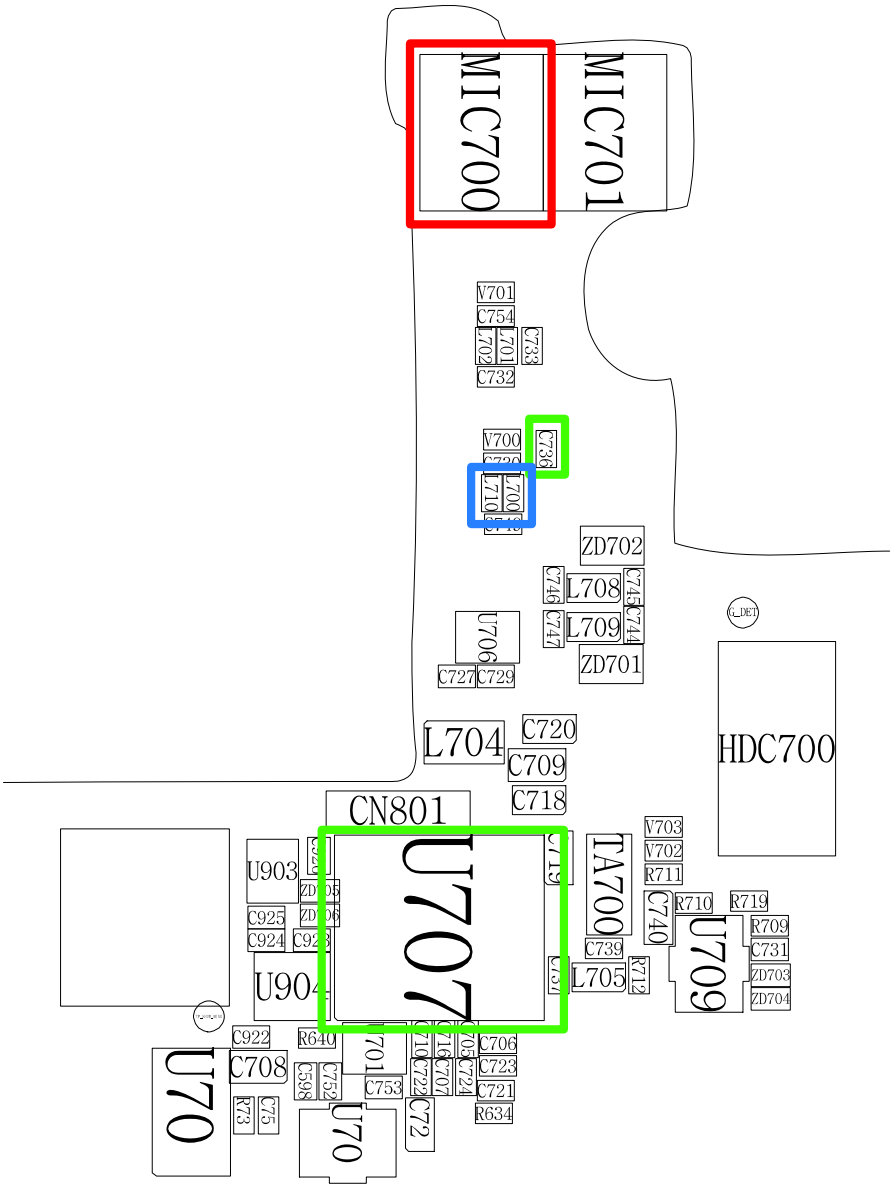

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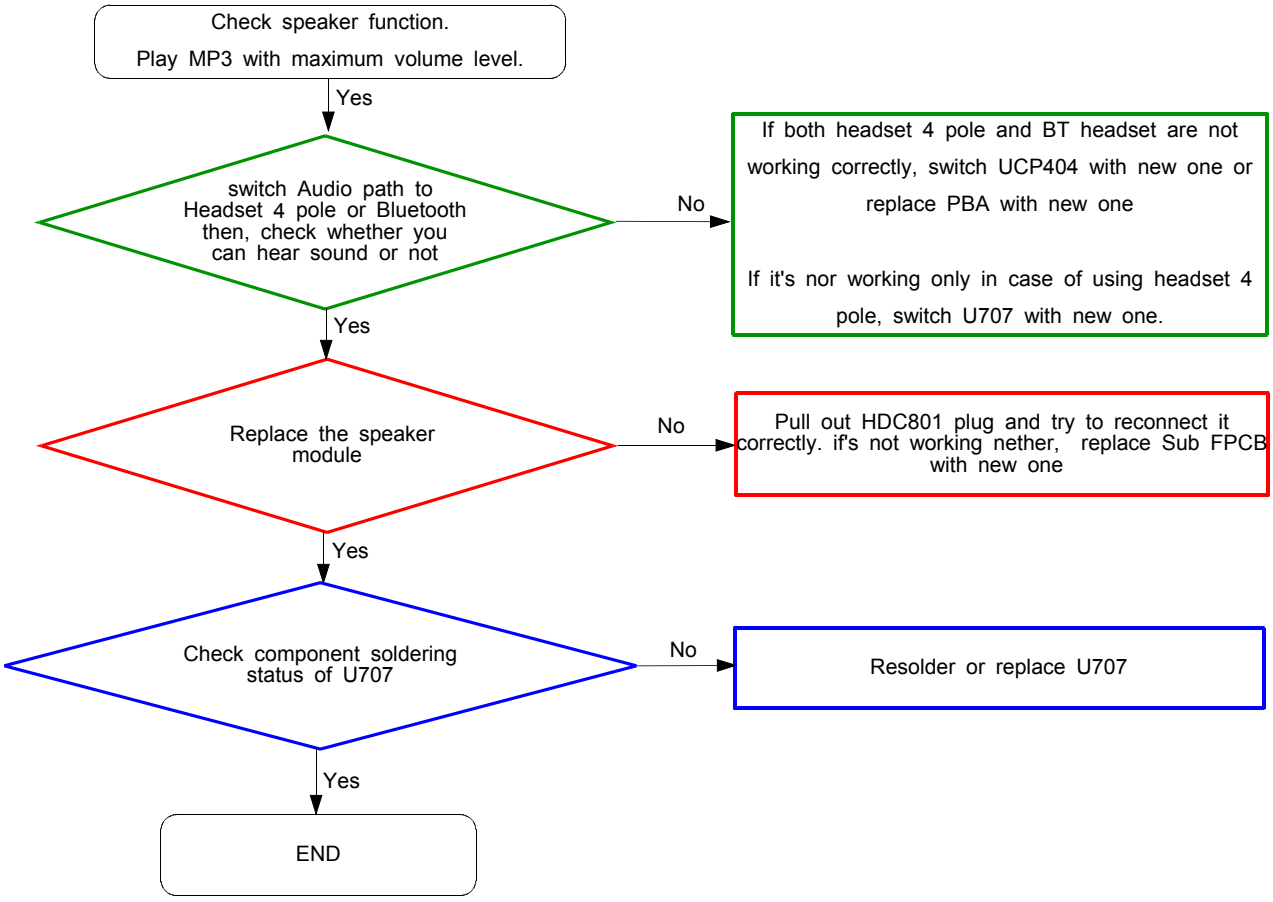
8-3-16. Speaker Part


Check speaker function.
Play MP3 with maximum volume level.
Yes
switch Audio path to Headset 4 pole or Bluetooth then, check whether you can hear sound or not
No
If both headset 4 pole and BT headset are not working correctly, switch UCP404 with new one or replace PBA with new one
If it's nor working only in case of using headset 4 pole, switch U707 with new one.
Yes
Replace the speaker module
No
Pull out HDC801 plug and try to reconnect it correctly. if's not working nether, replace Sub FPCB with new one
Yes
Check component soldering status of U707
No
Resolder or replace U707
Yes
END

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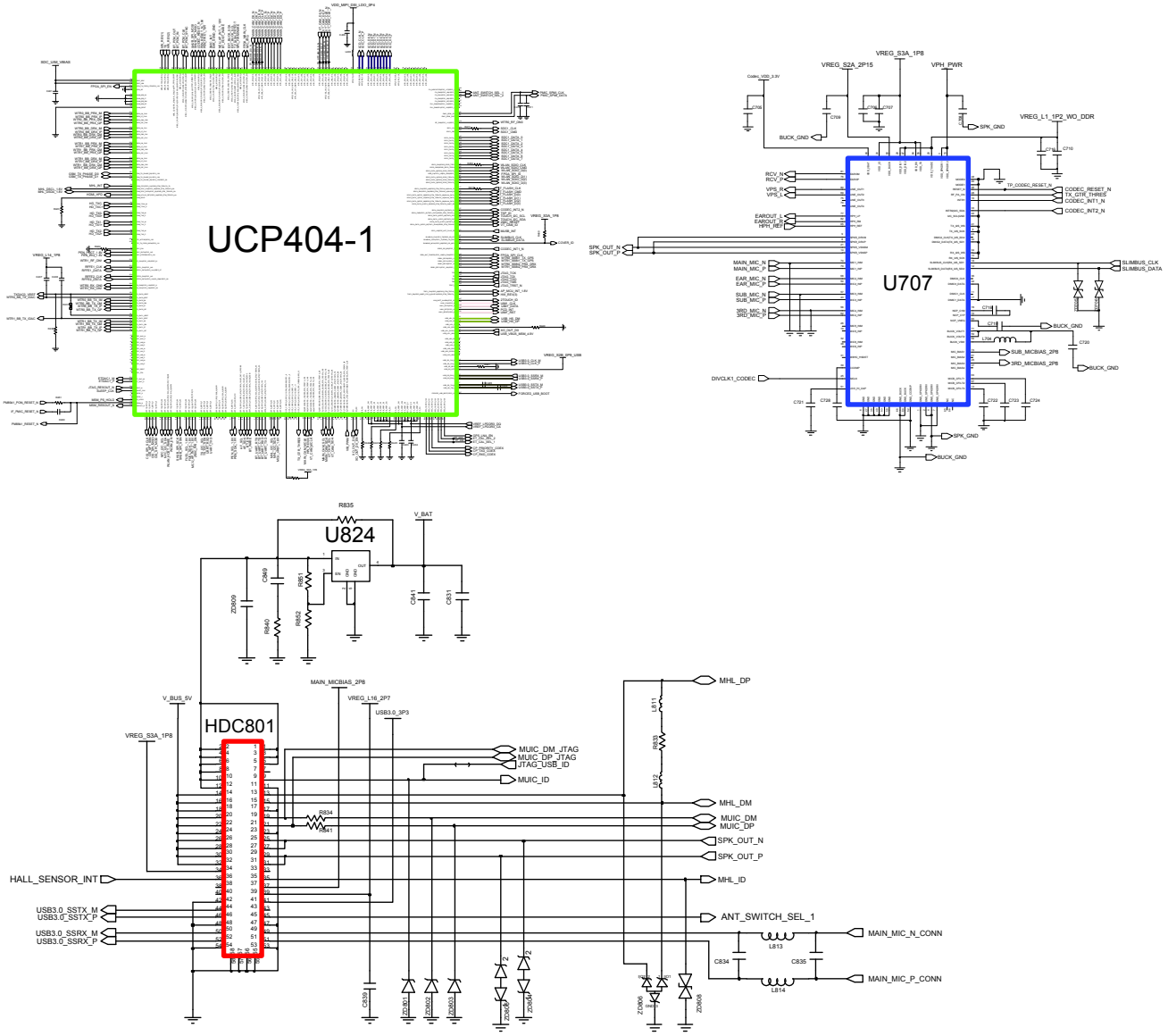

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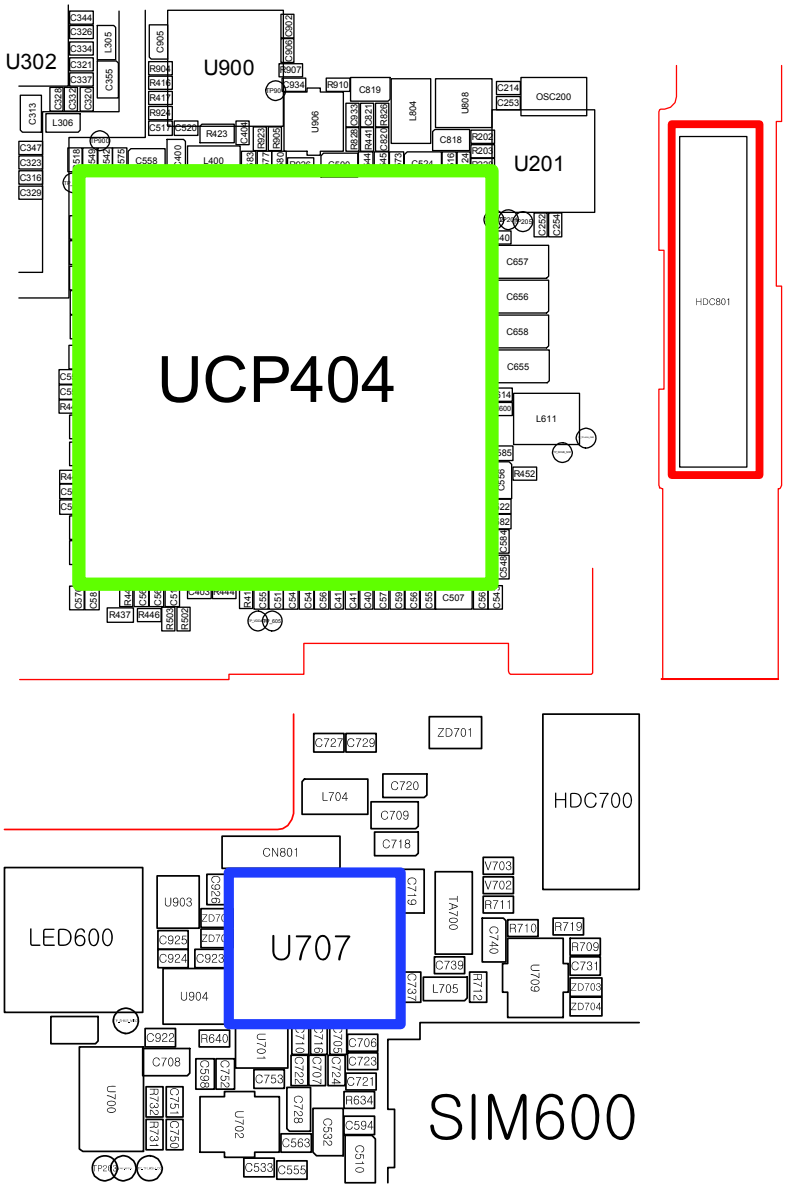

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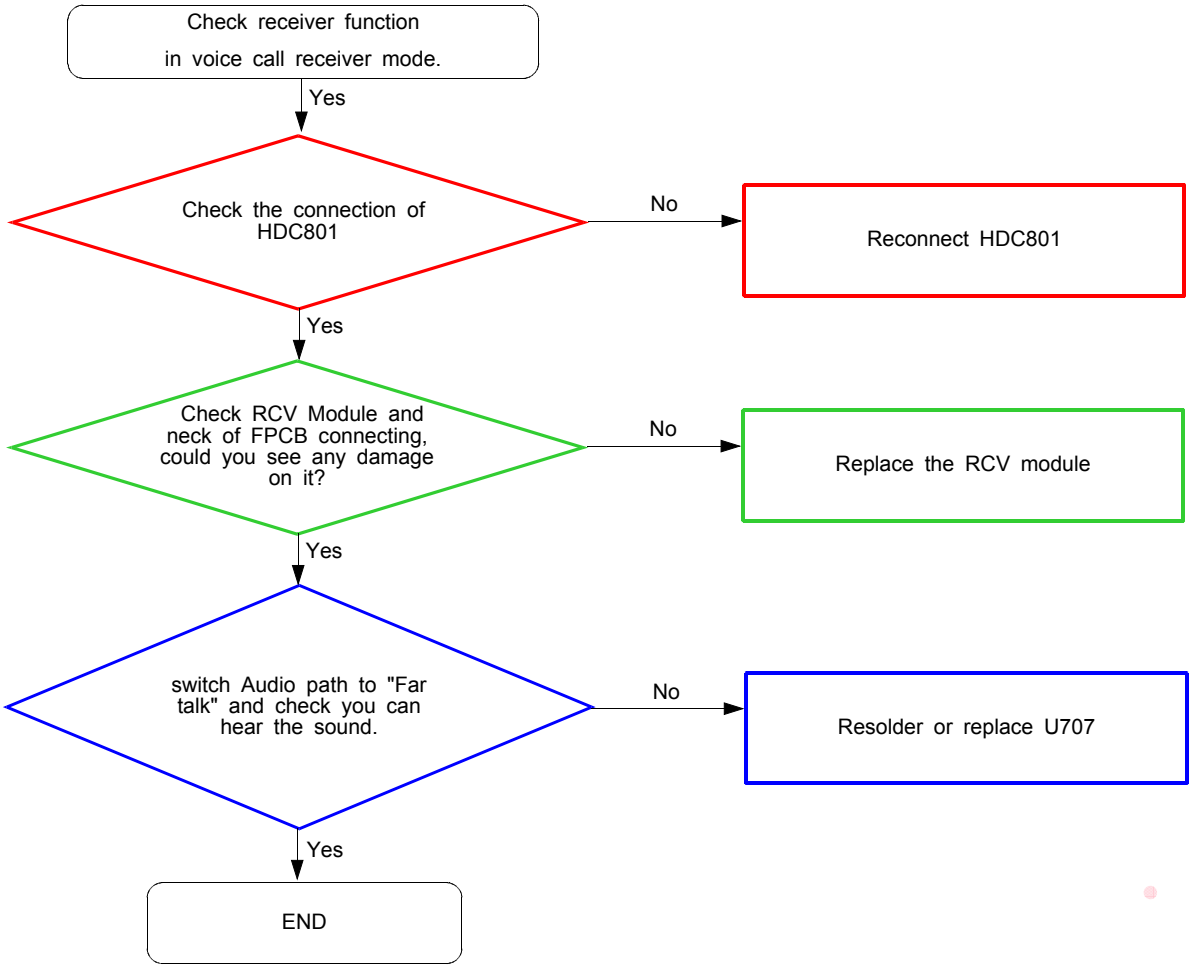
8-3-17. Receiver Part



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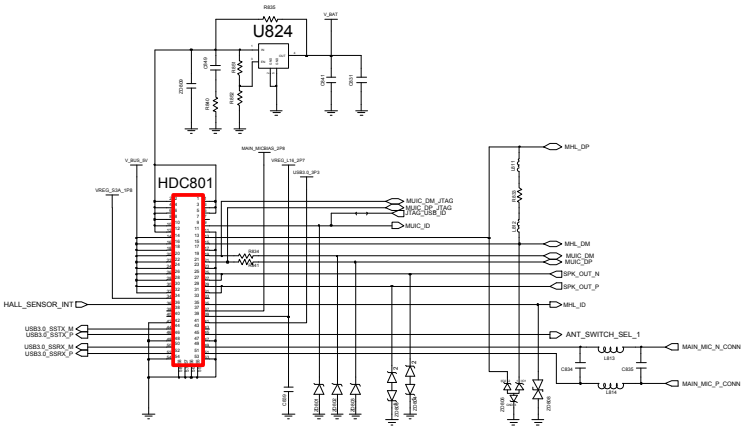

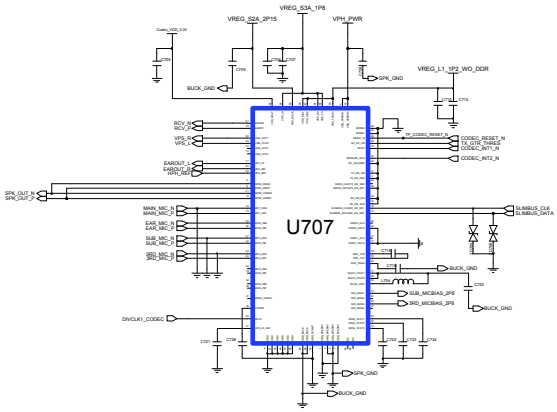

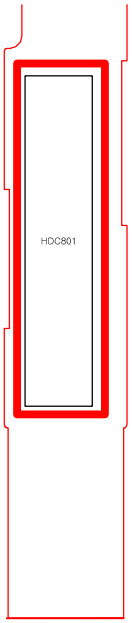

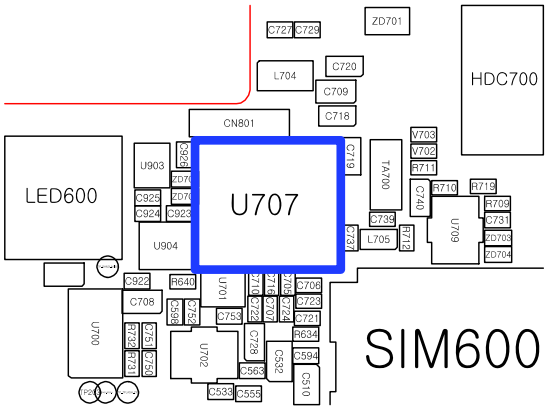

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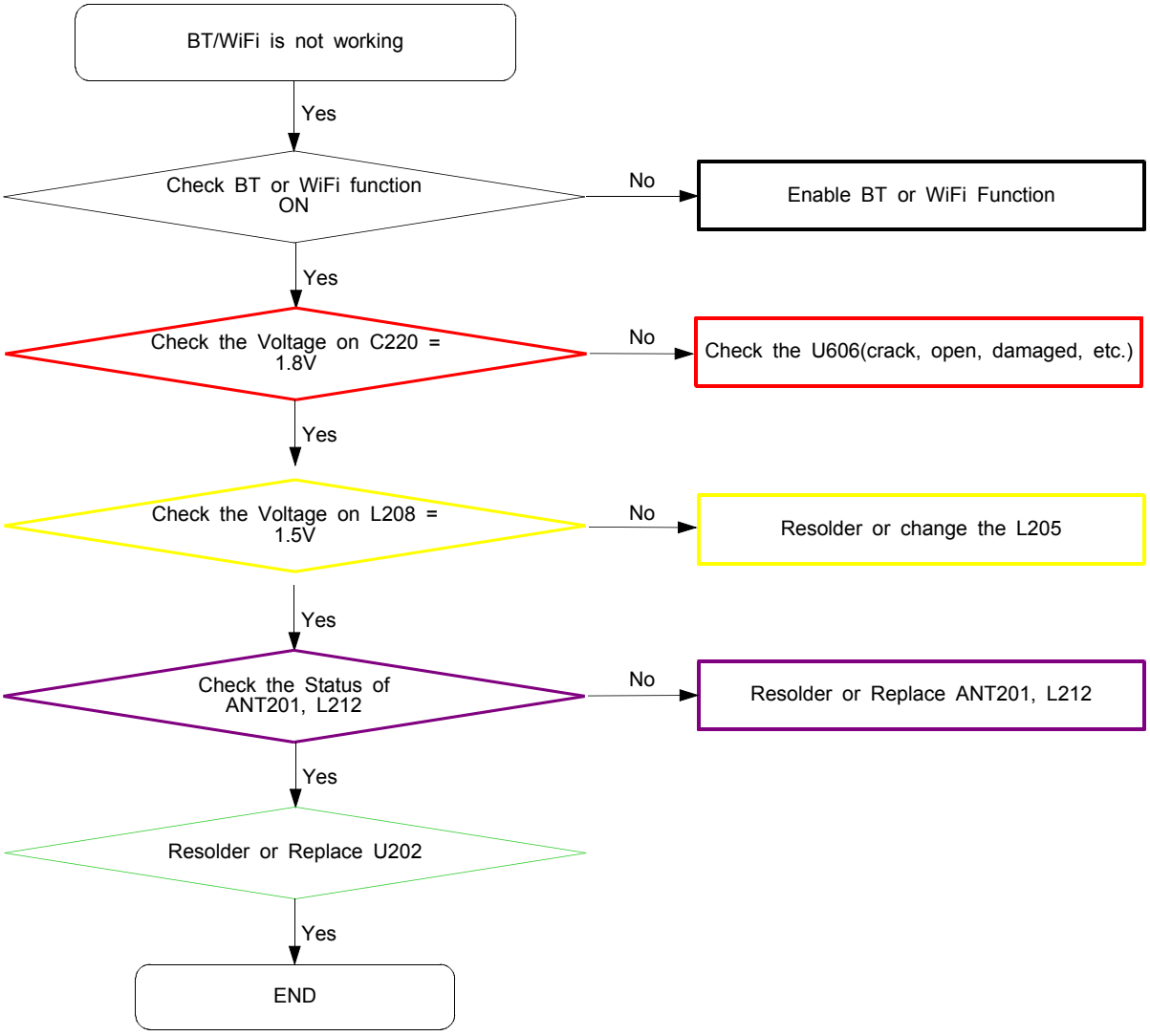
8-3-18. BT/WIFI



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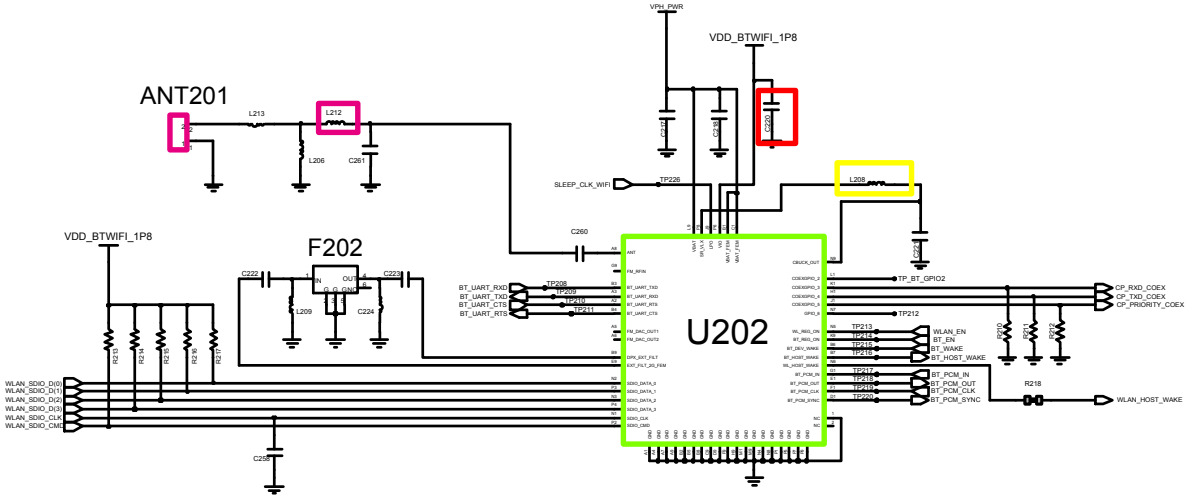

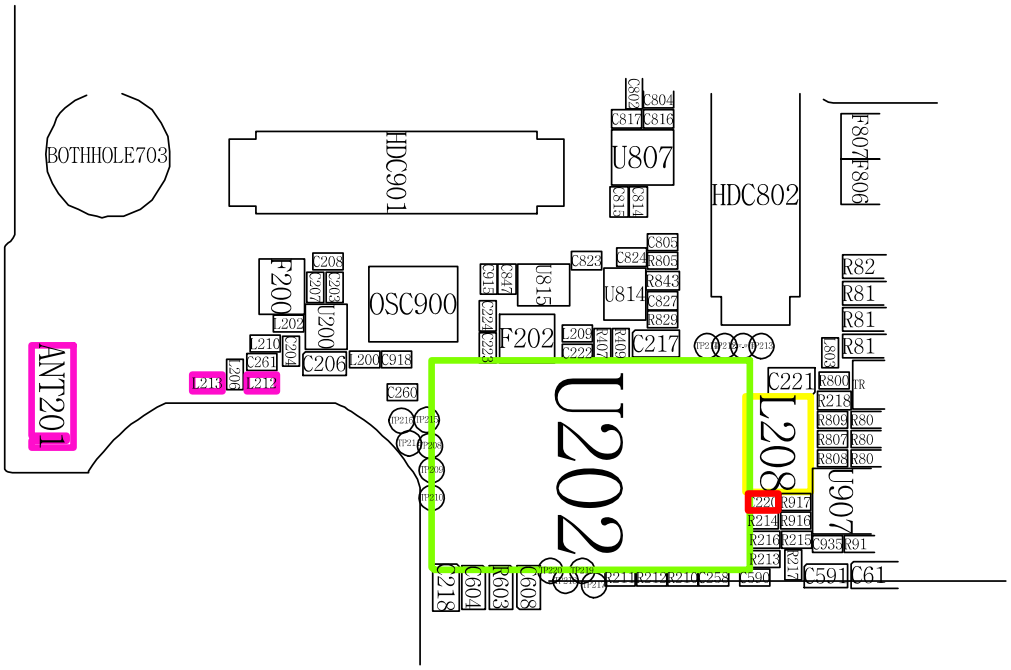

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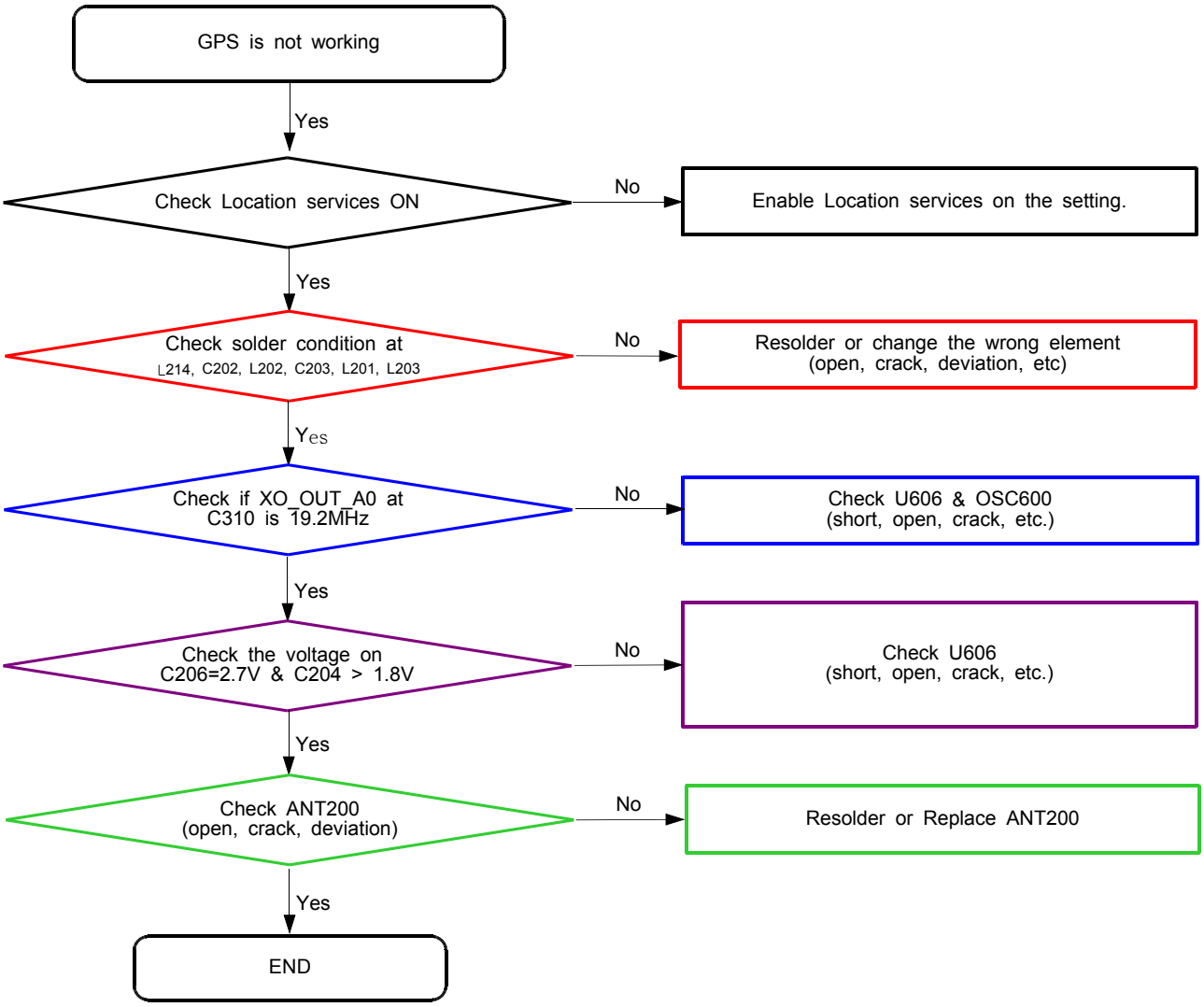
8-3-19. GPS



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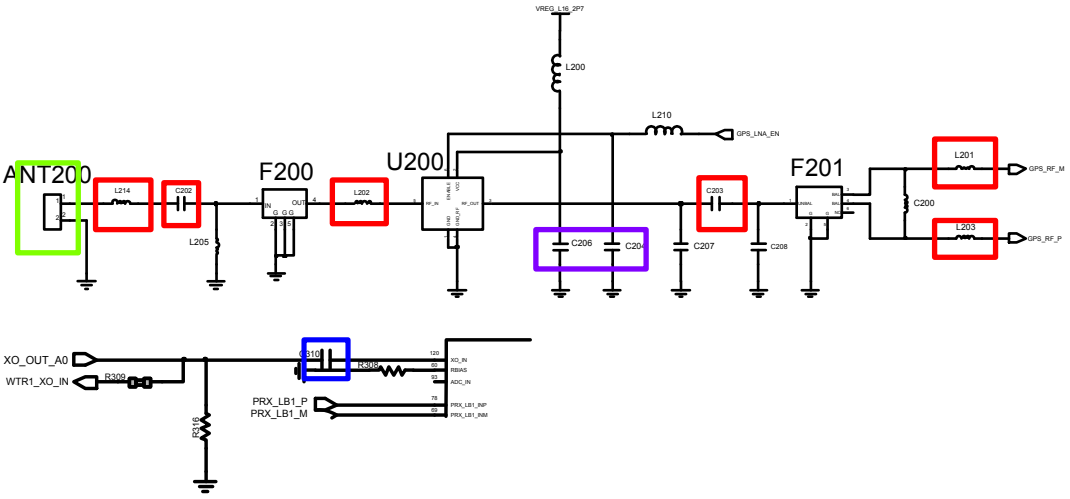

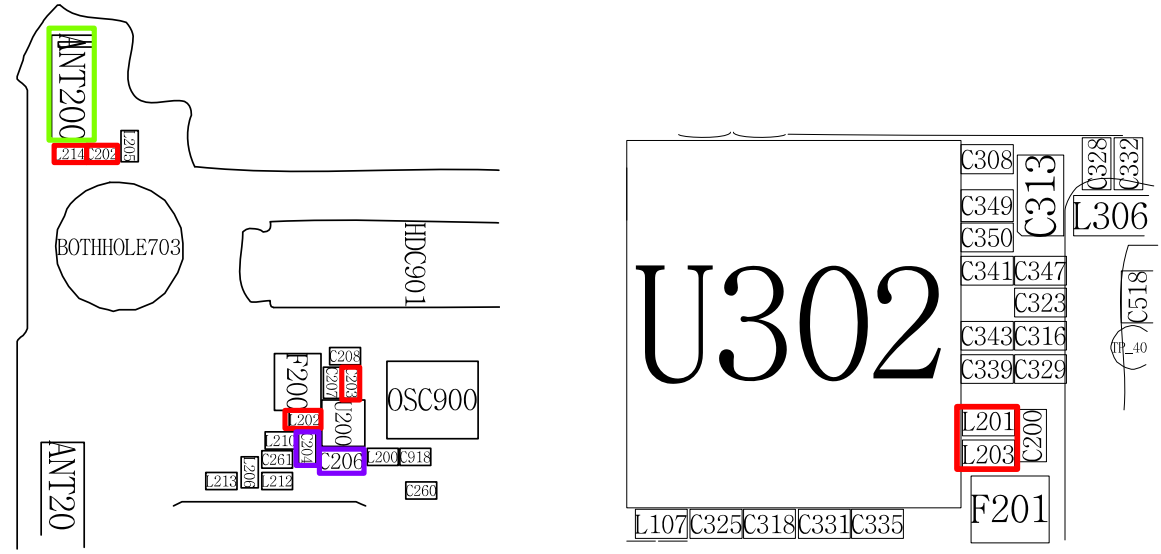

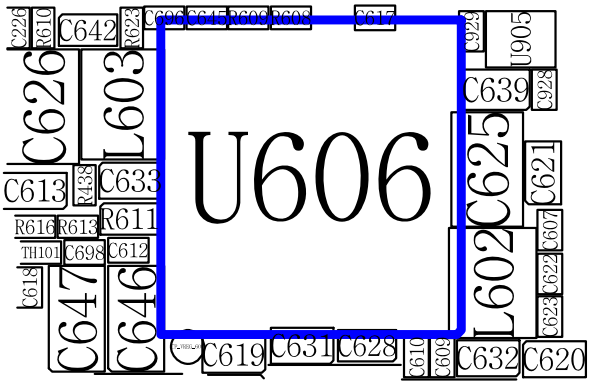

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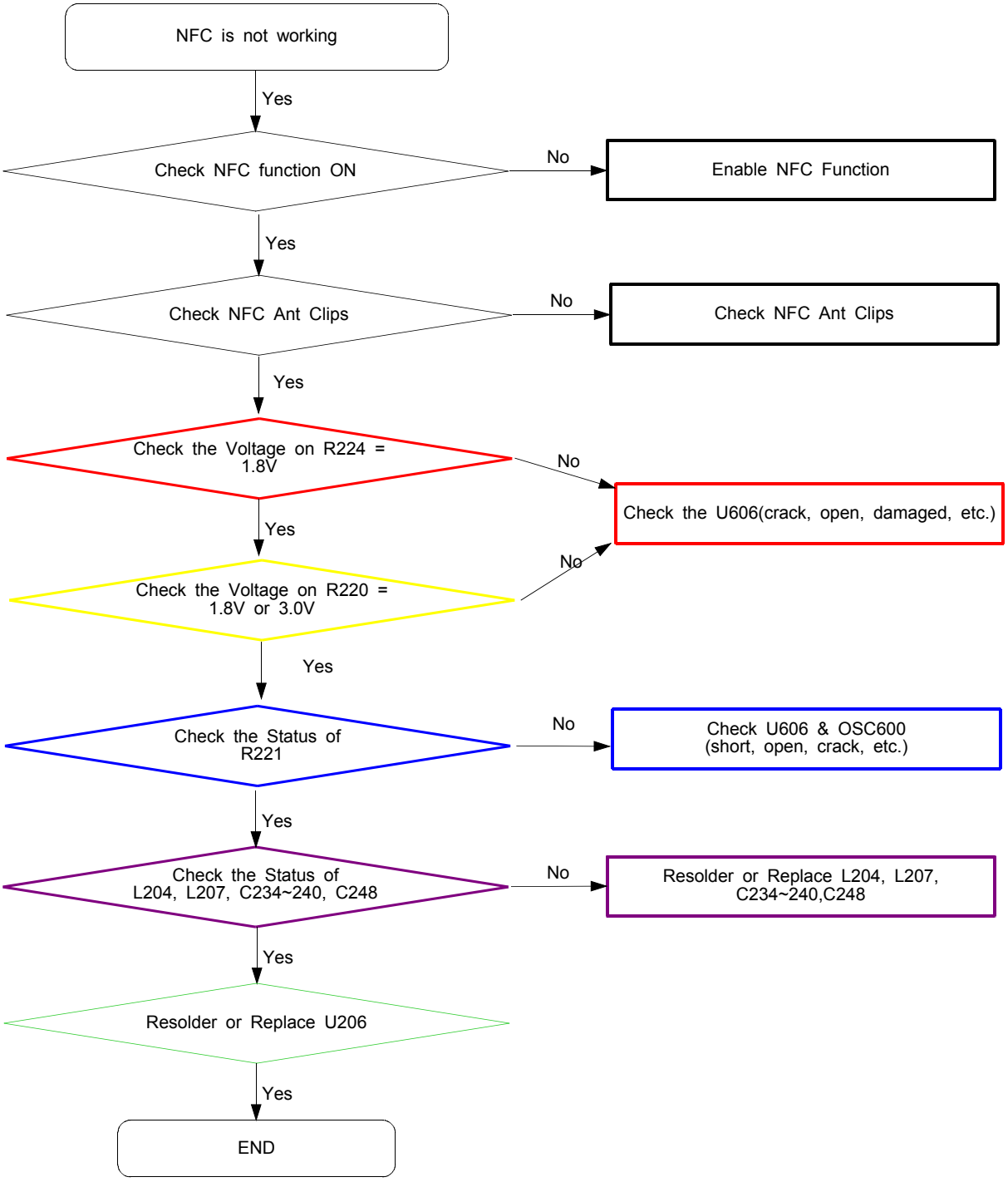
8-3-20. NFC



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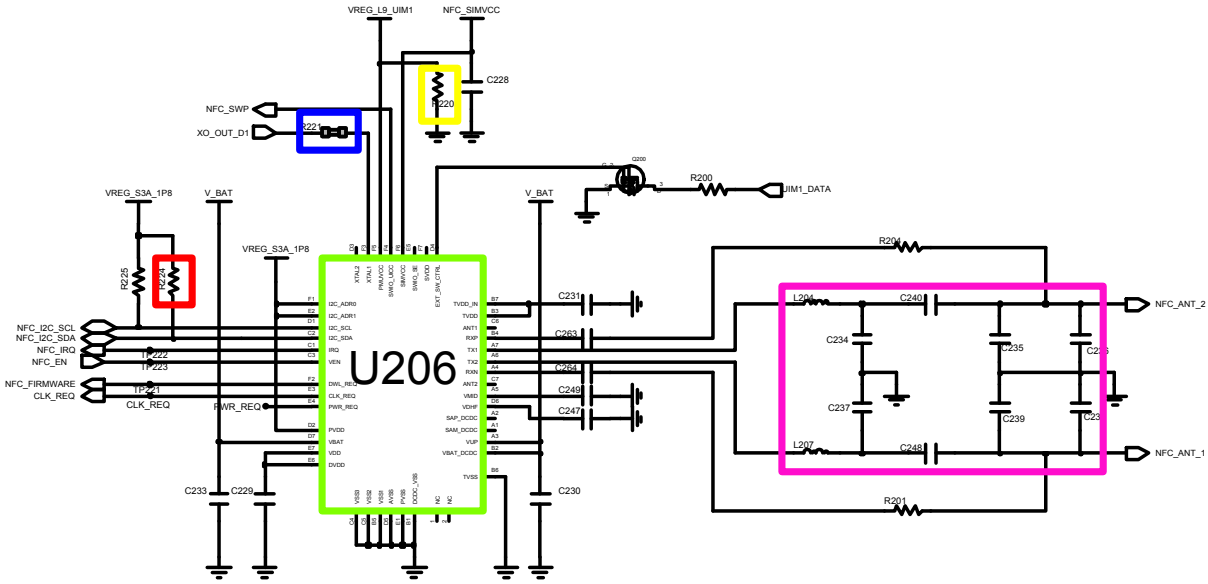

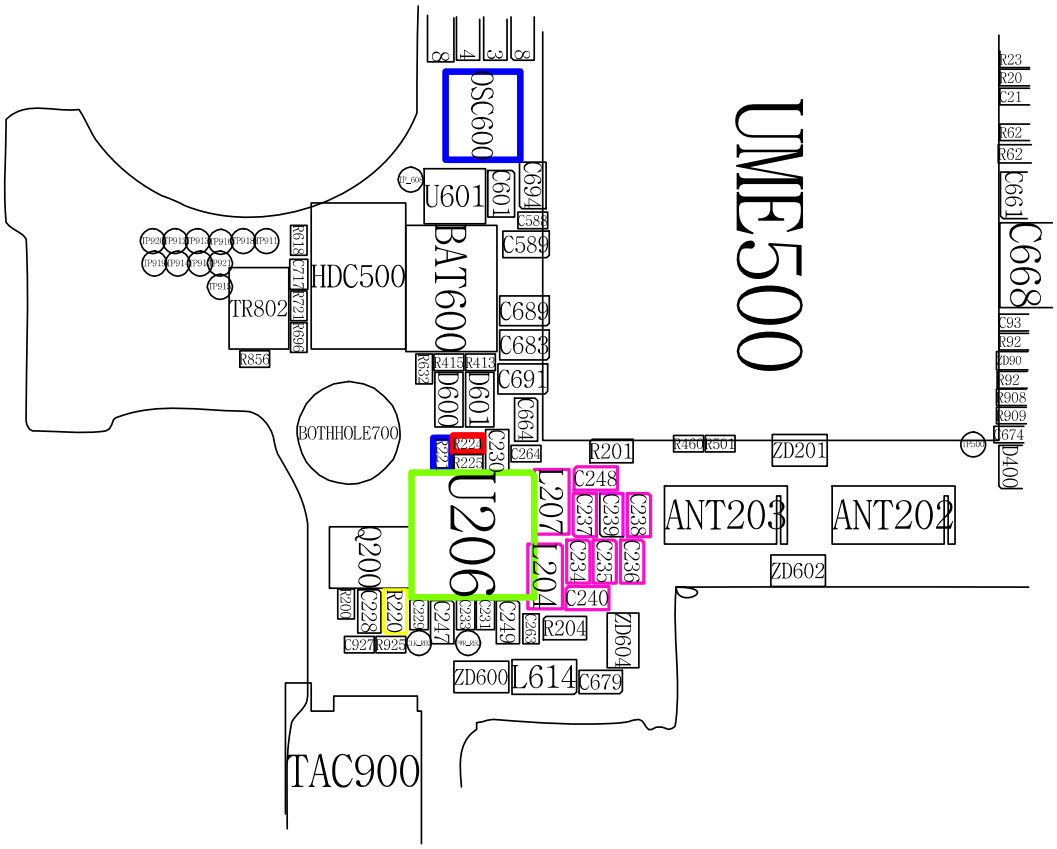

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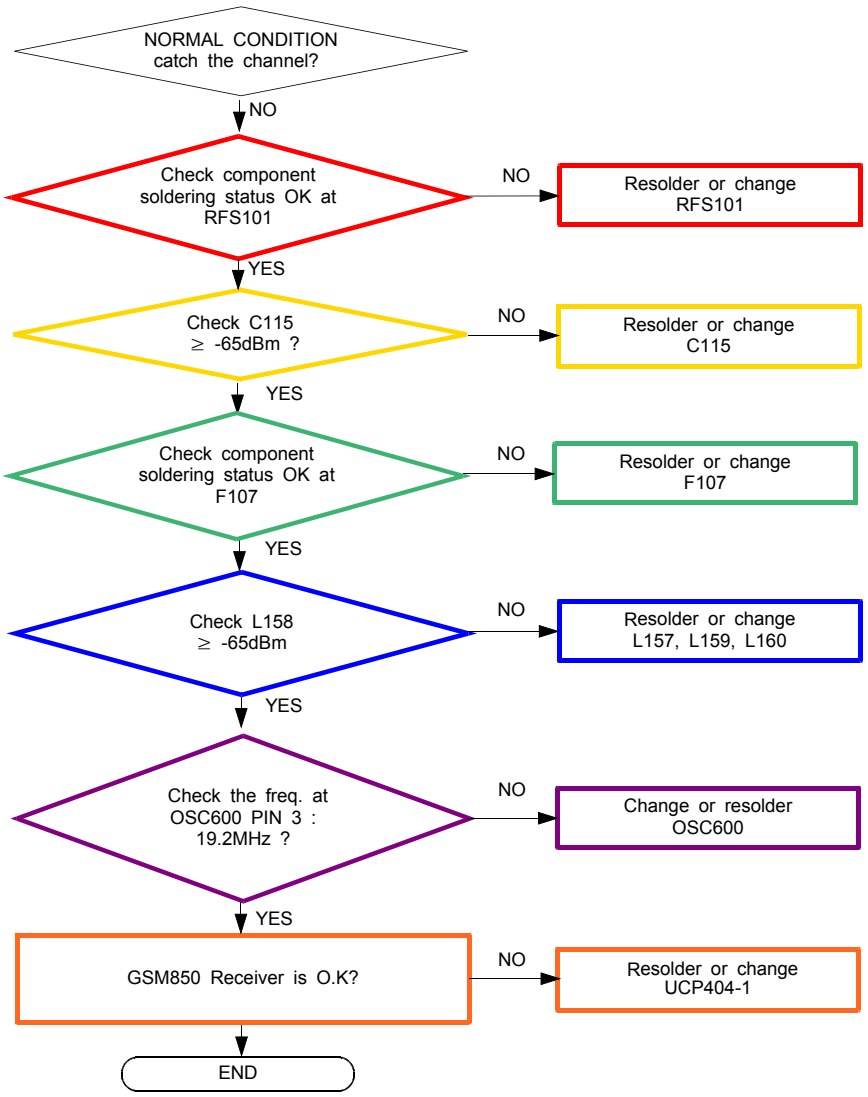
8-3-21-1 GSM850 RX



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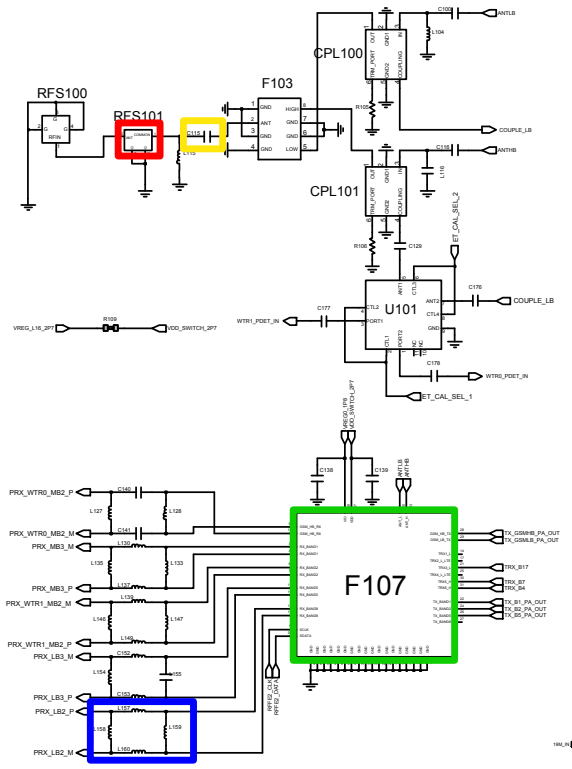

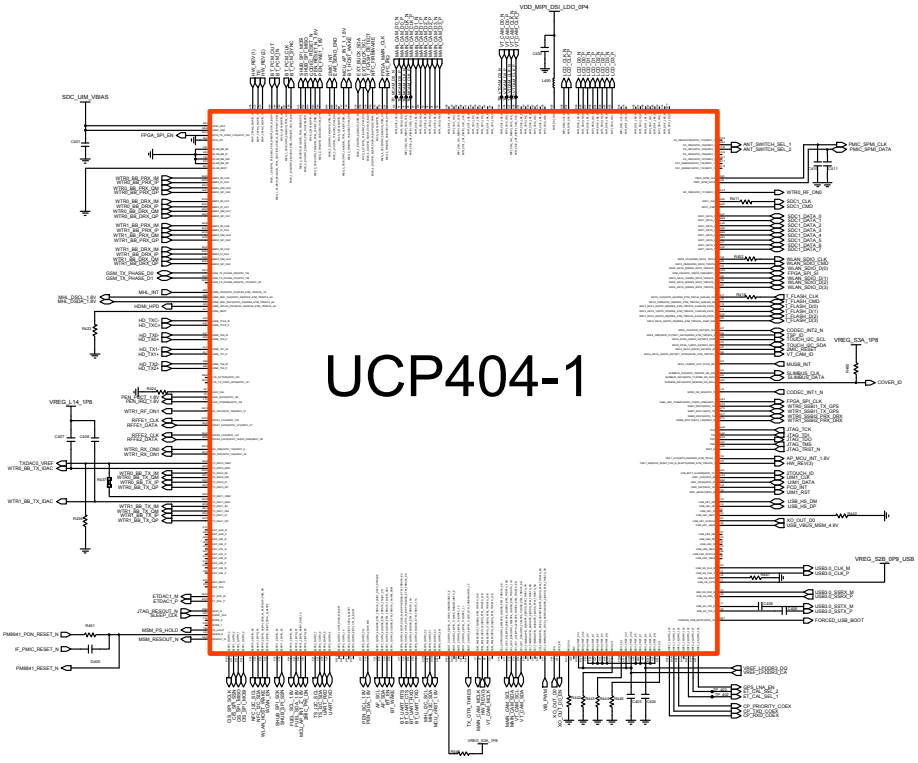

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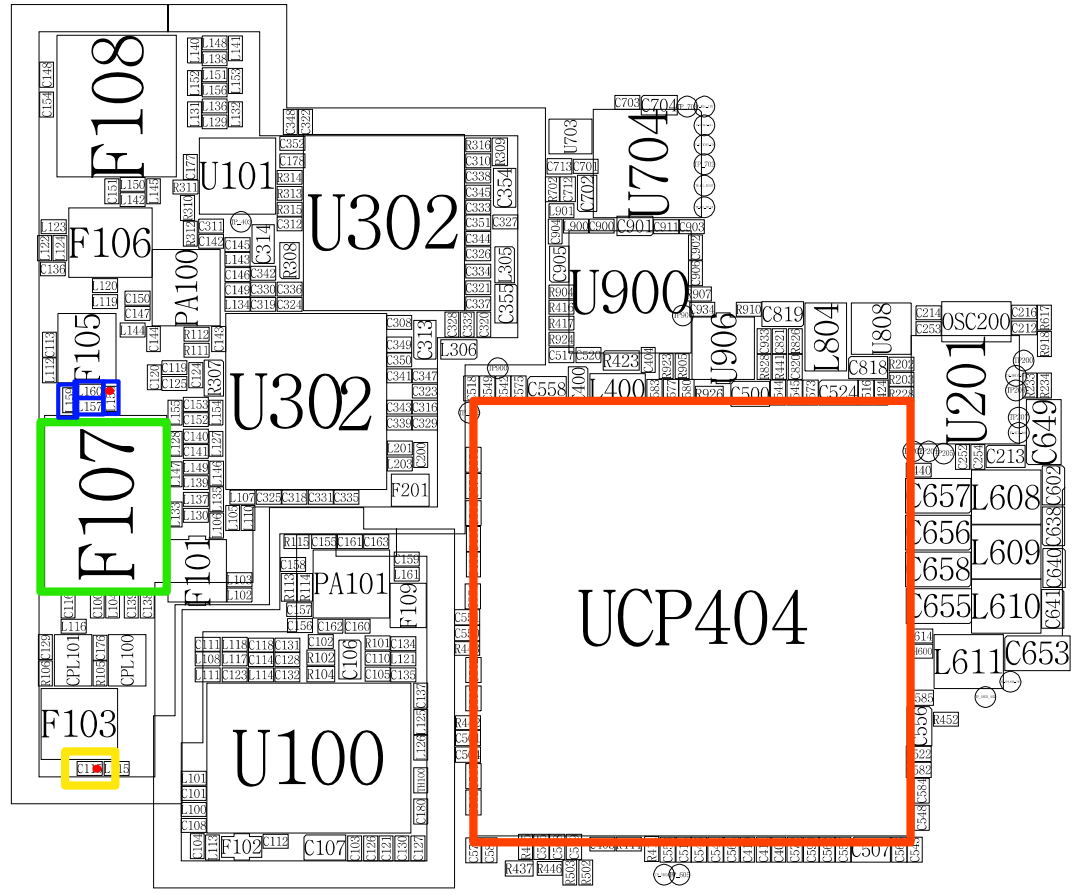
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U302
U704
F106
PA100
U900
U906
L804
U808
OSC200
U201
F105
U302
C313
L306
C558
L400
C819
C818
C649
C213
F107
F201
C657
L608
C656
L609
C658
L610
C655
L611
C653
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U100
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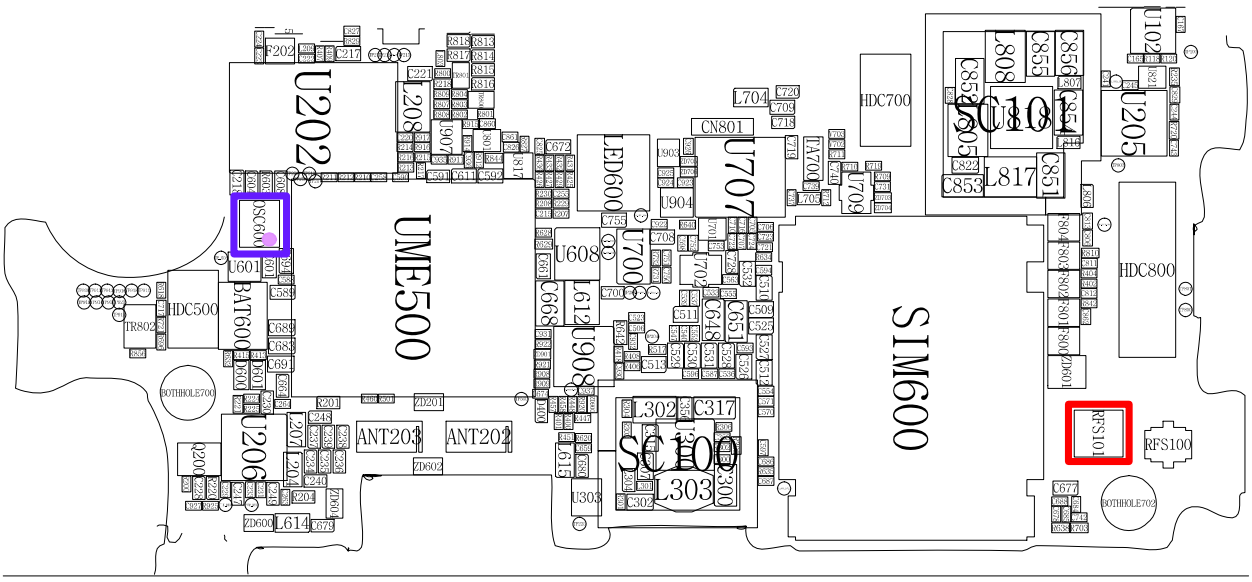
C107
R437
R446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BAT600
HDC500
TR802
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C682
C691
C690
BOTHHOLE700
UME500
ANT203
ANT202
ZD201
ZD602
U206
C207
L207
L204
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C204
C200
ZD600
L614
C679
LED9000
U904
U608
C668
L612
U700
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C701
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CN801
U707
IAT7000
HDC700
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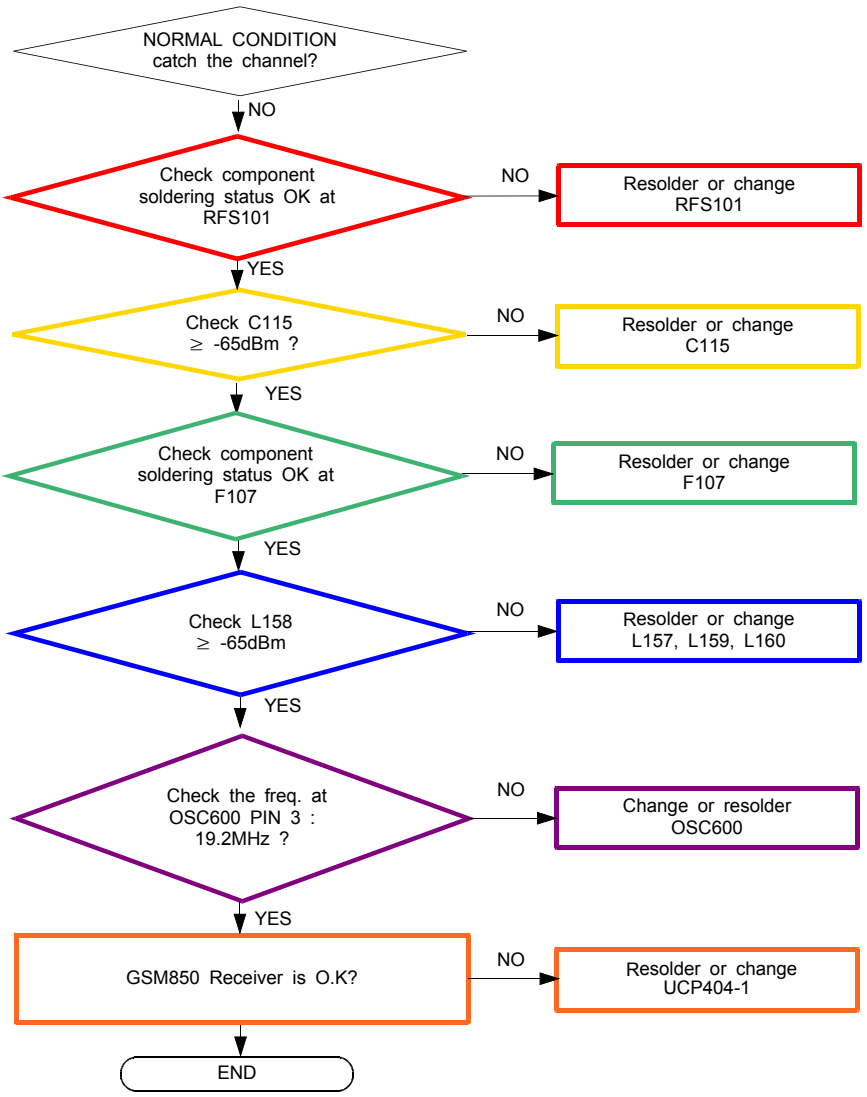
8-3-21-2. GSM900 RX



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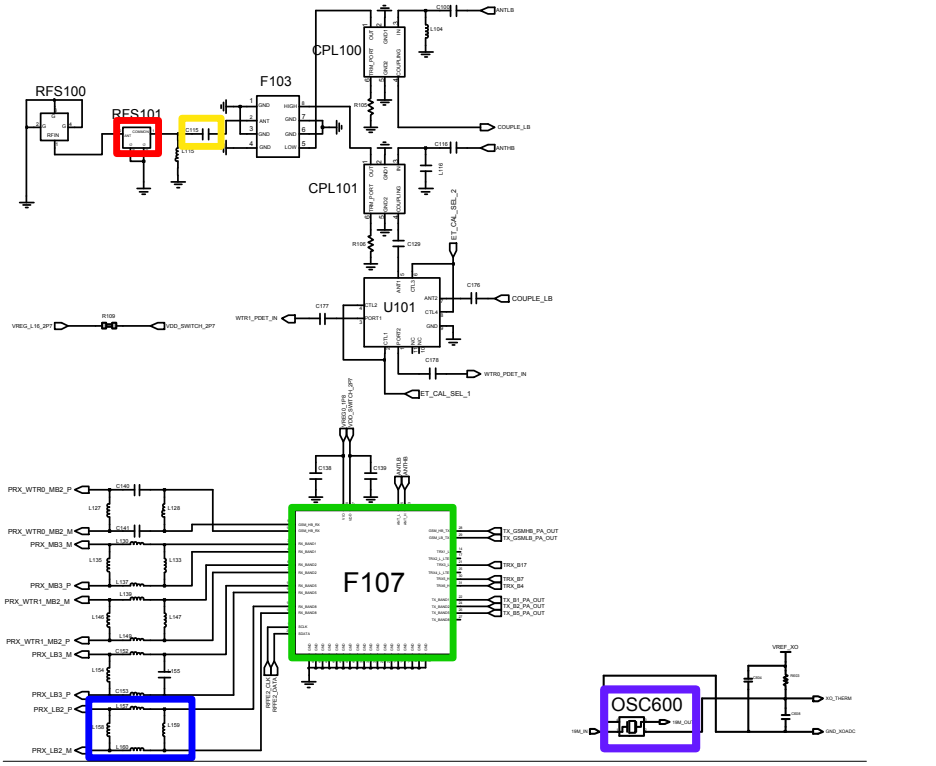

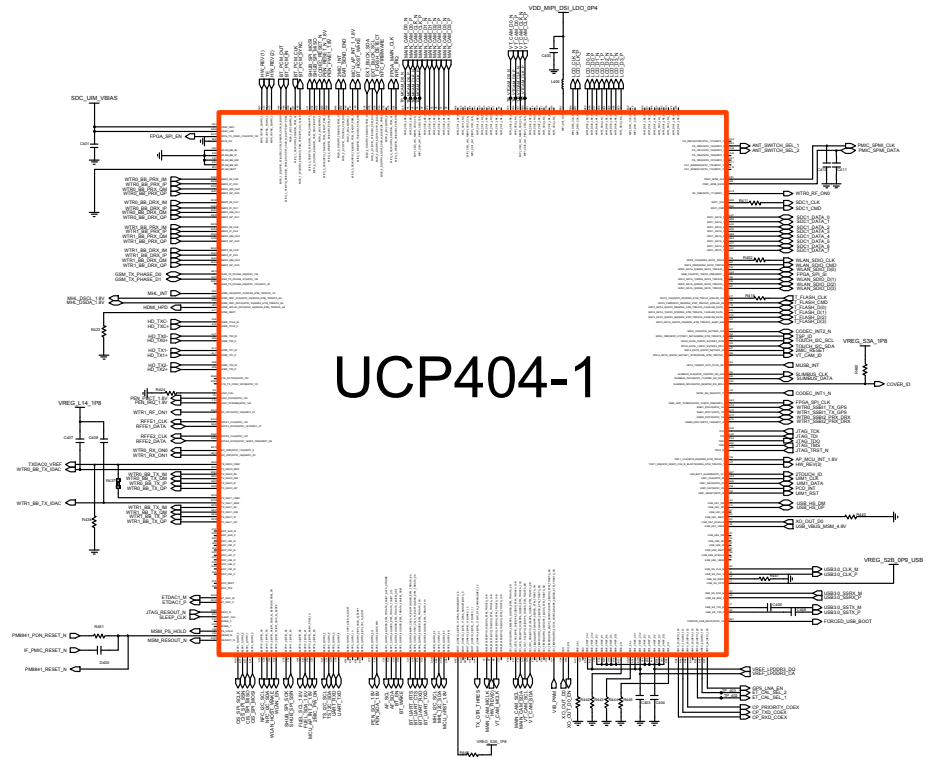

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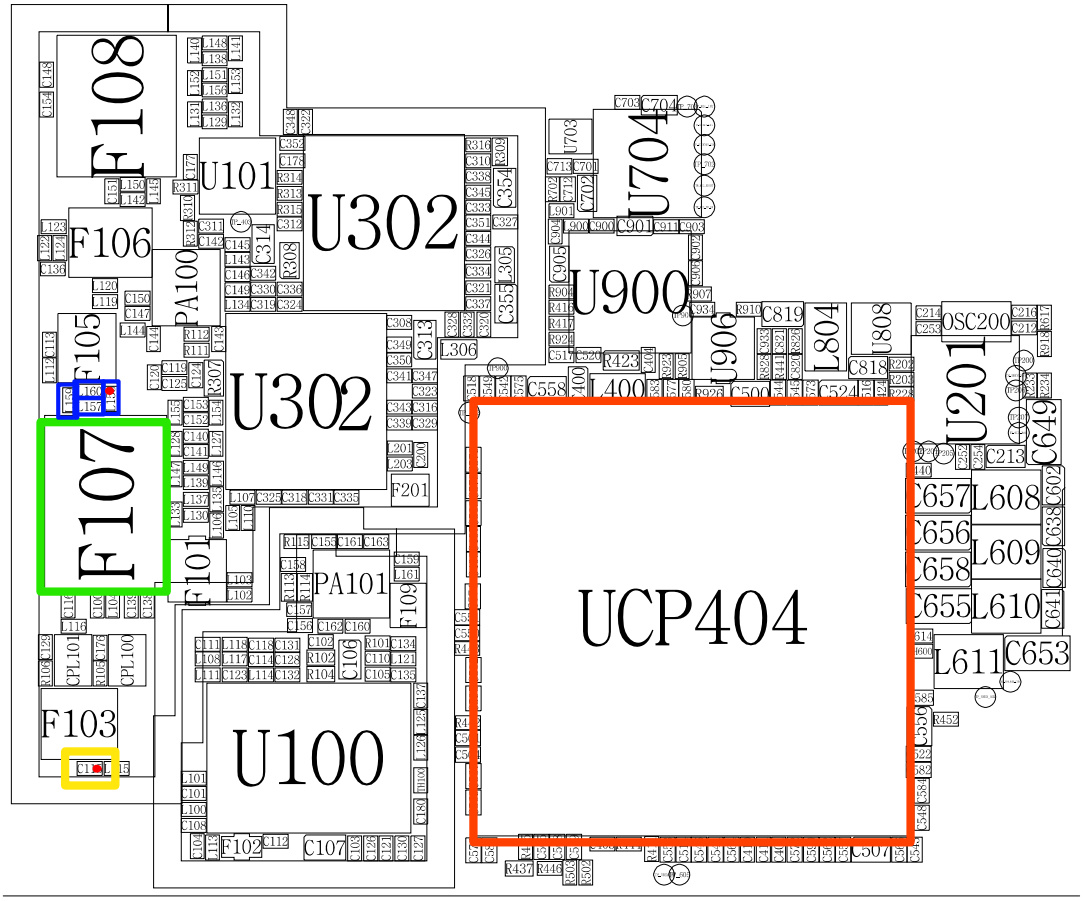

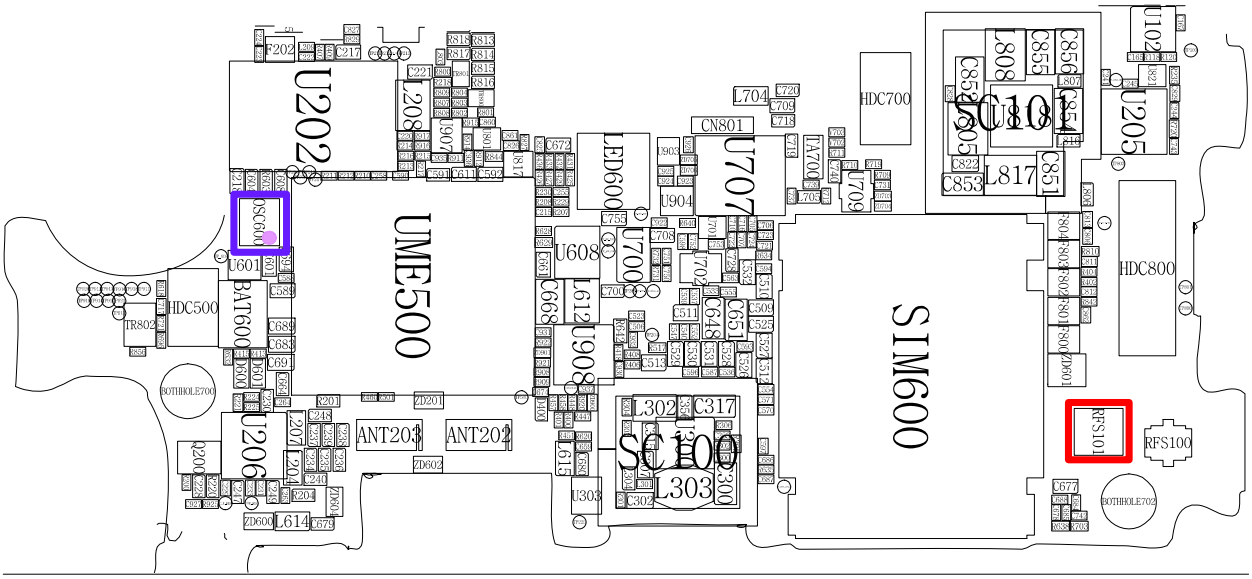

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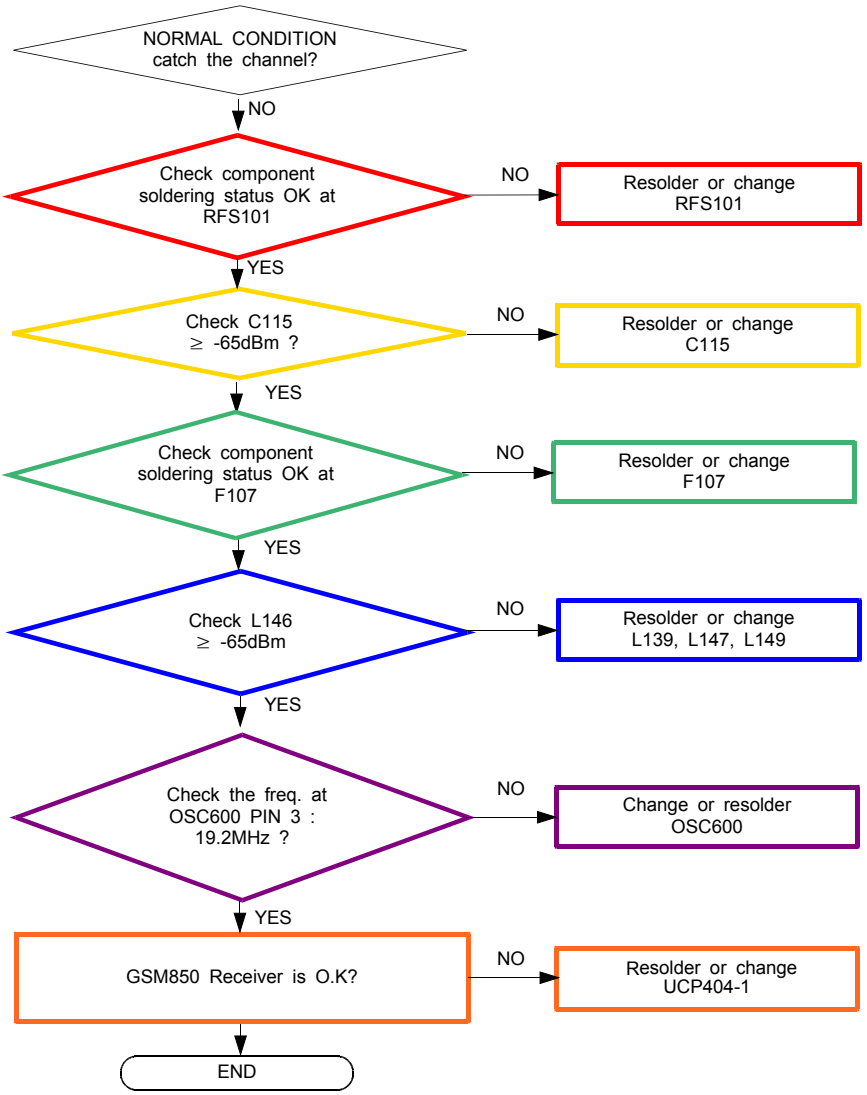
8-3-22. GSM1800/1900 RX



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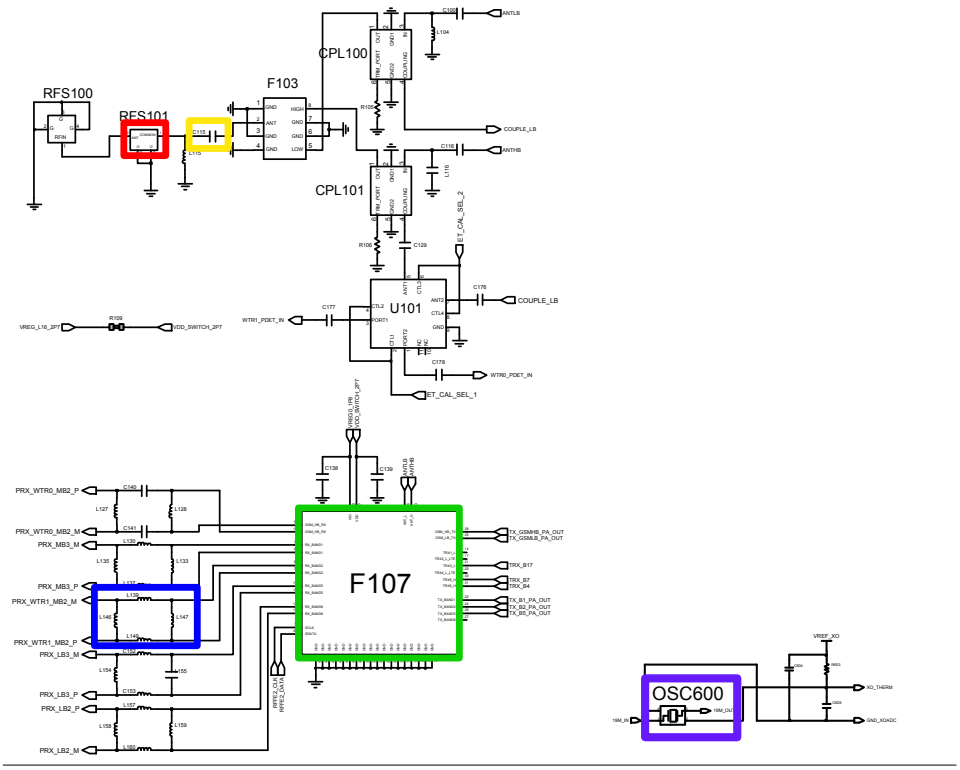

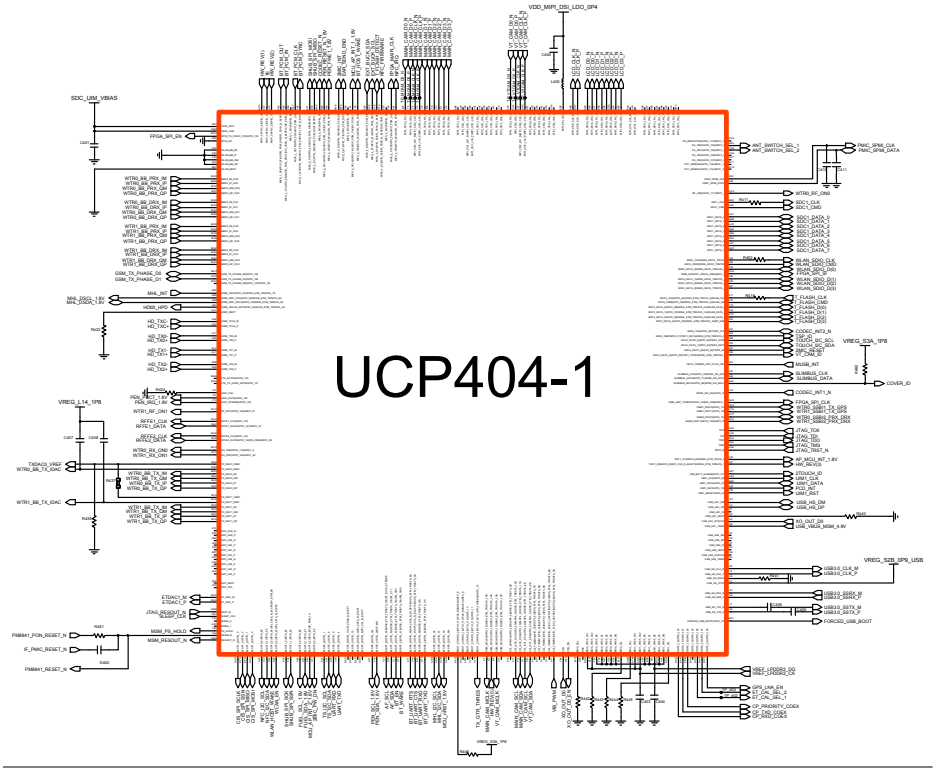

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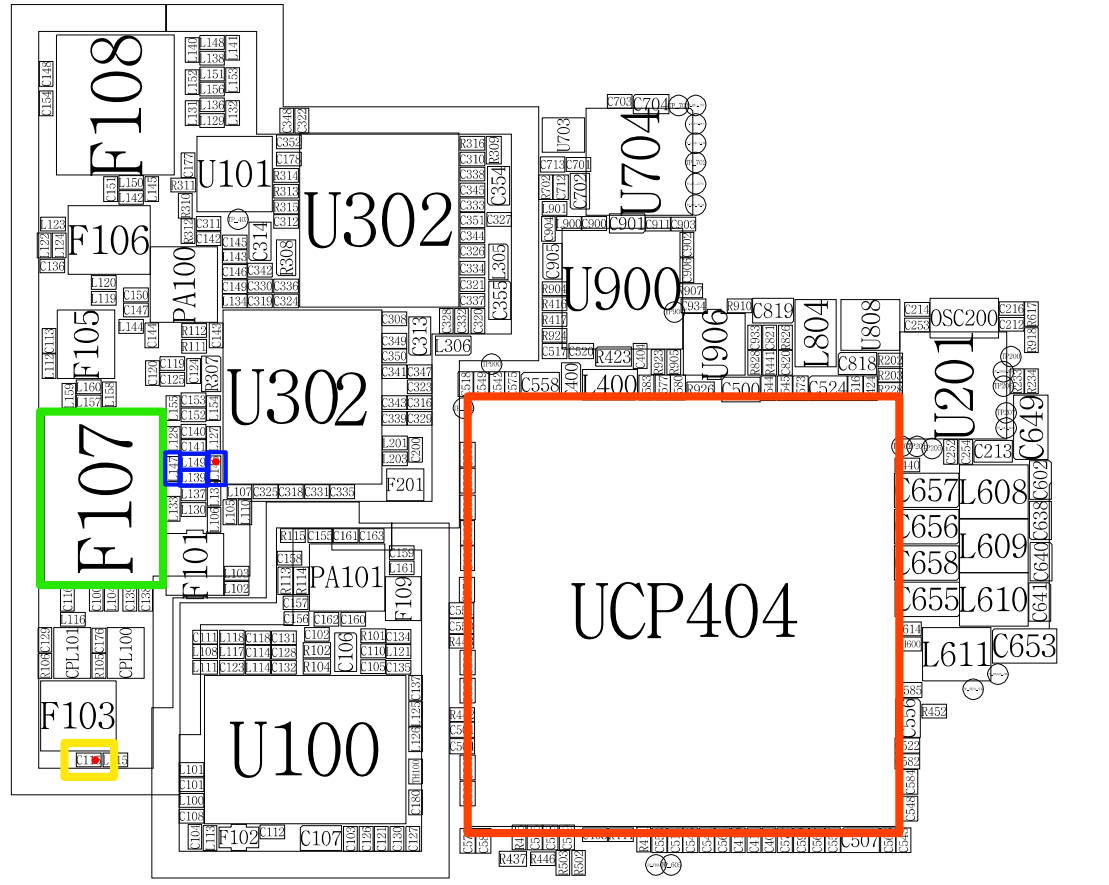

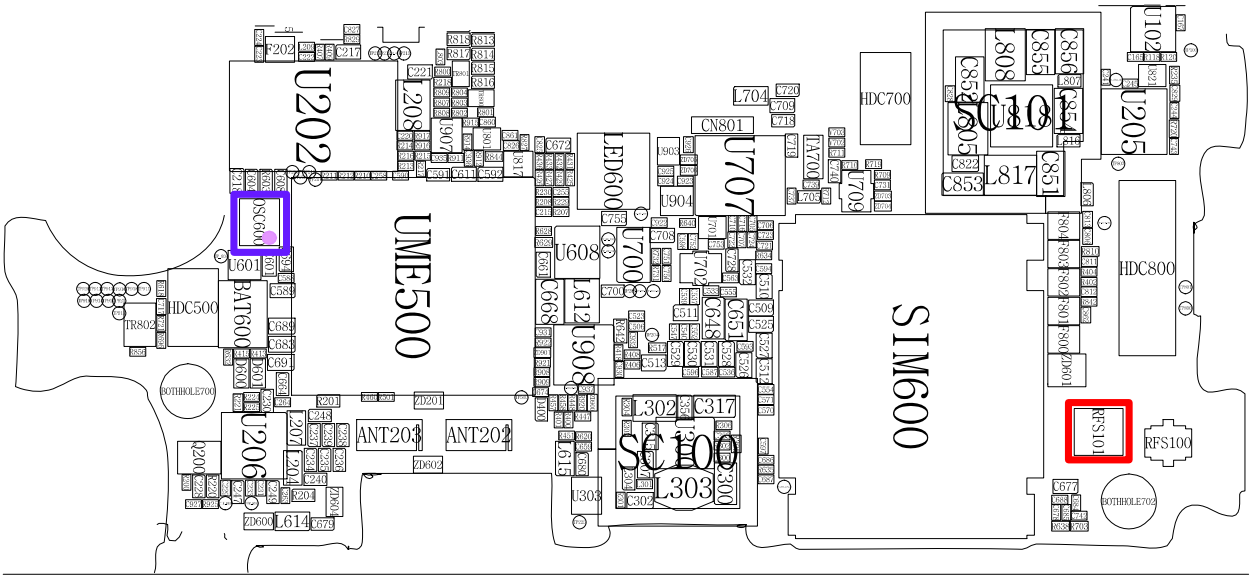

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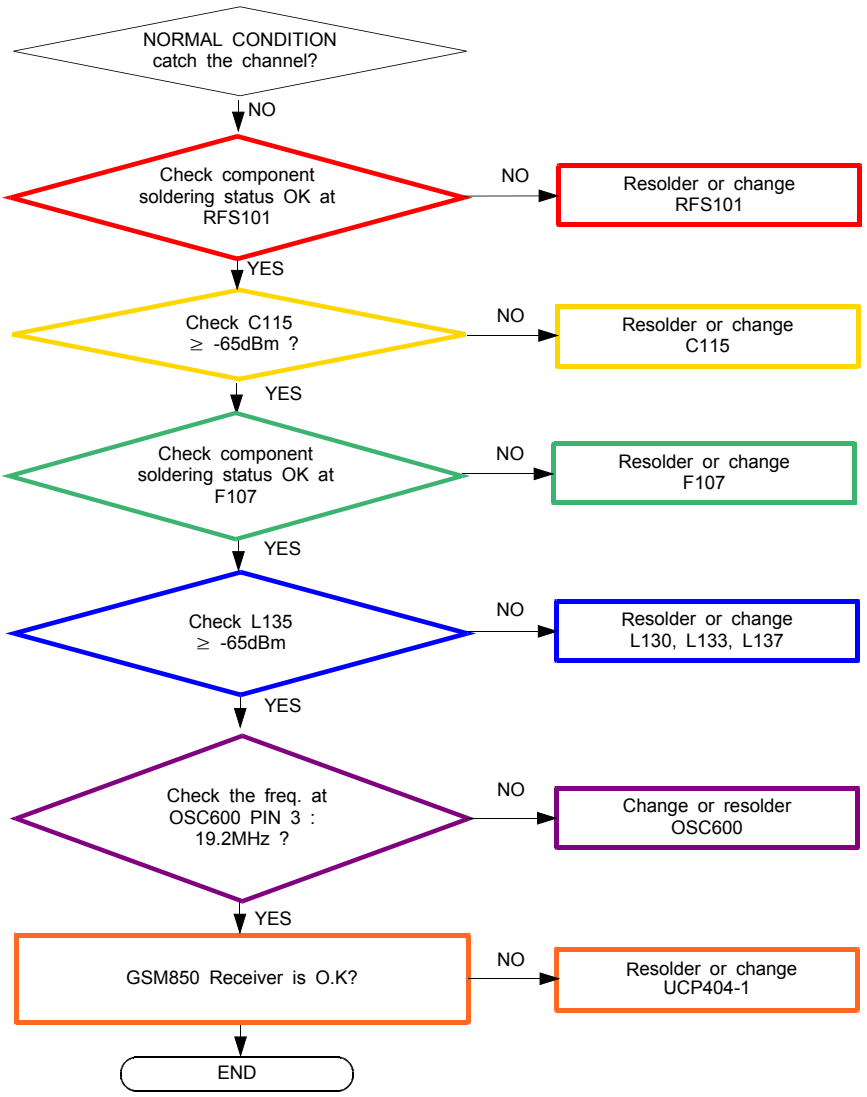
8-3-23. WCDMA2100 RX

CONTINUOUS RX ON
RF INPUT : 10700 CH (DL)
AMP : -50dBm



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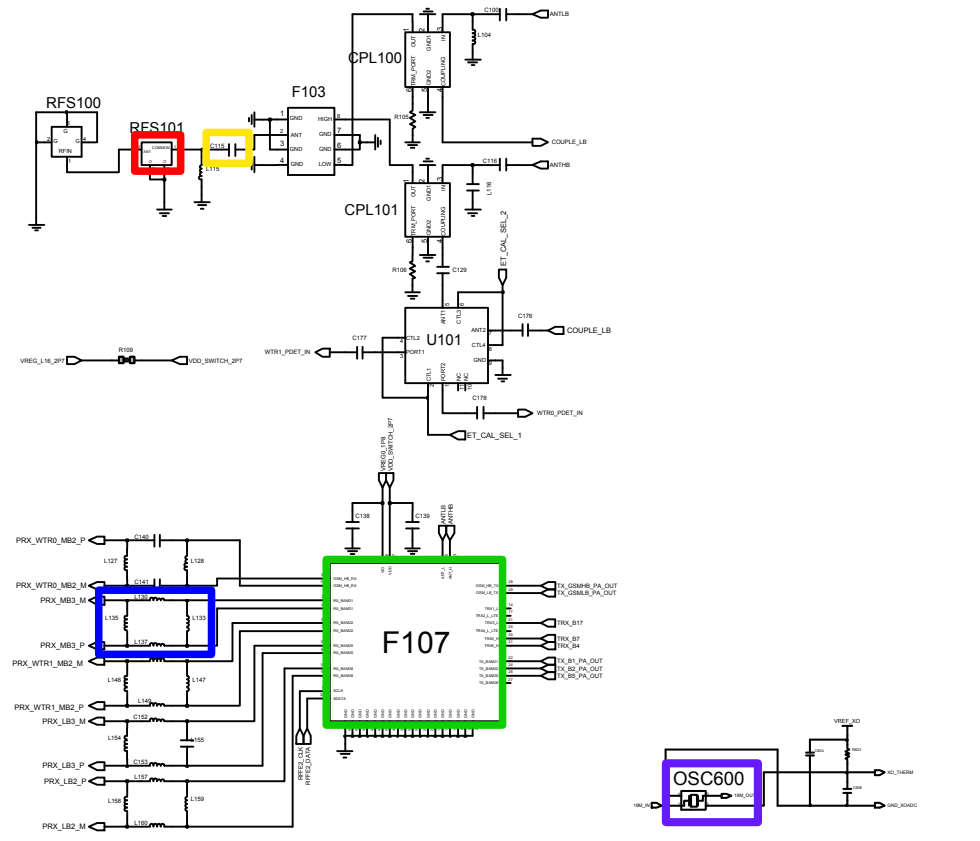

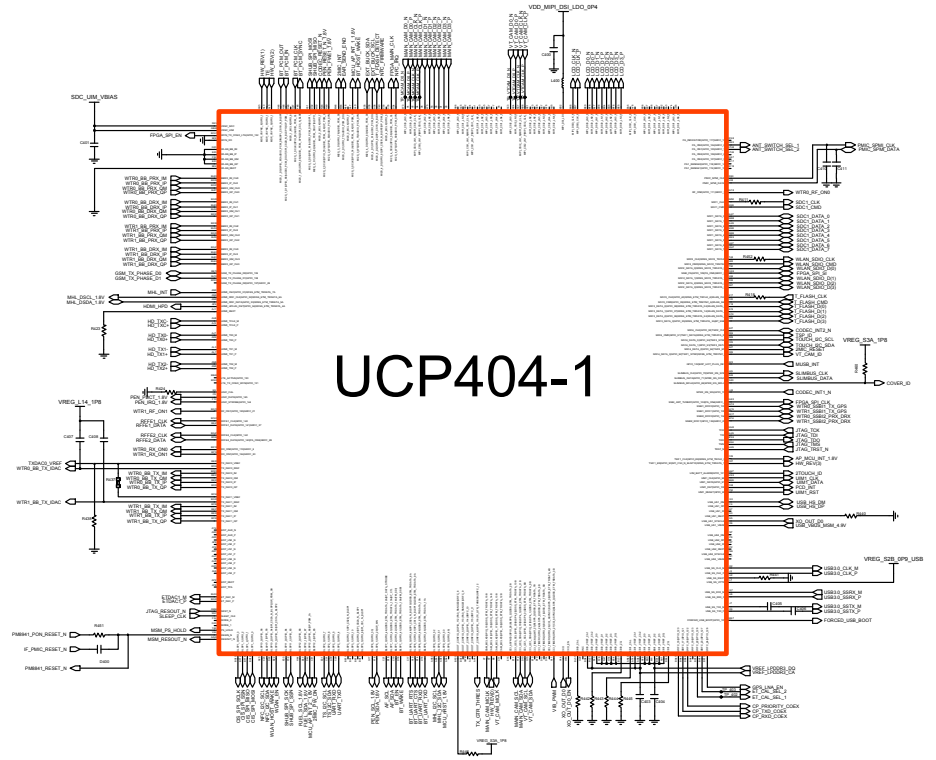

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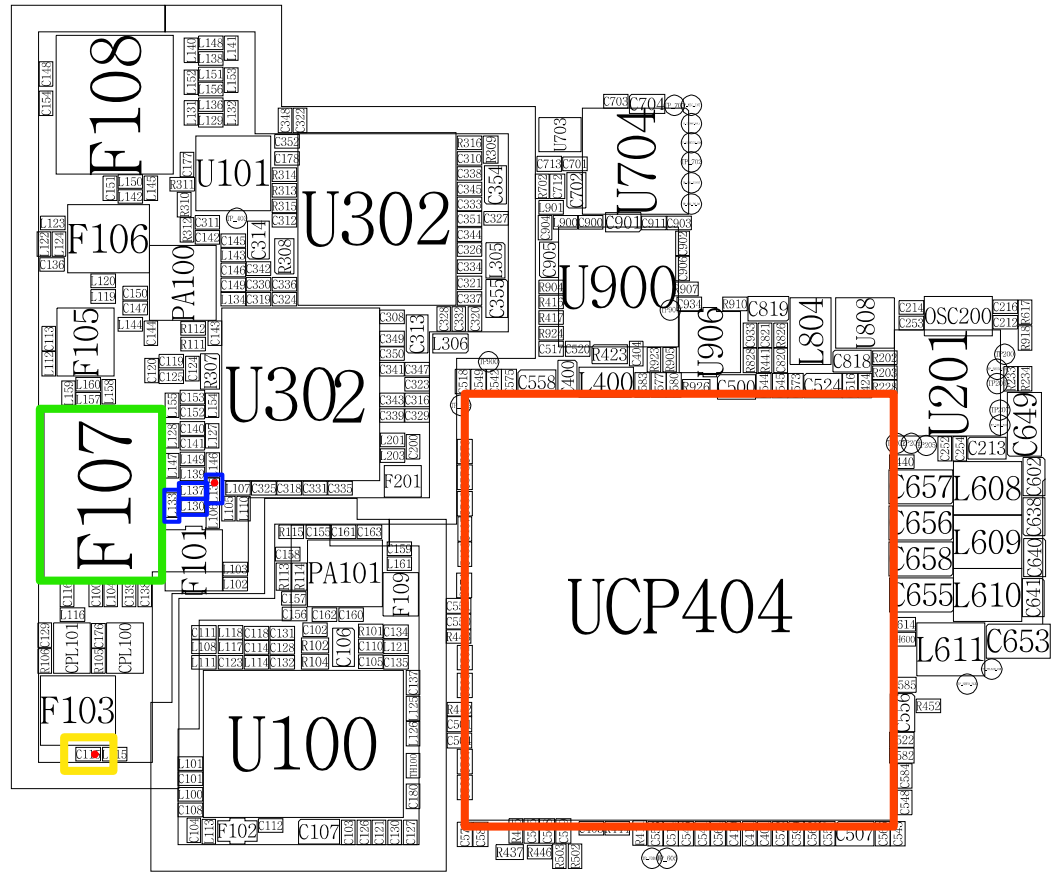

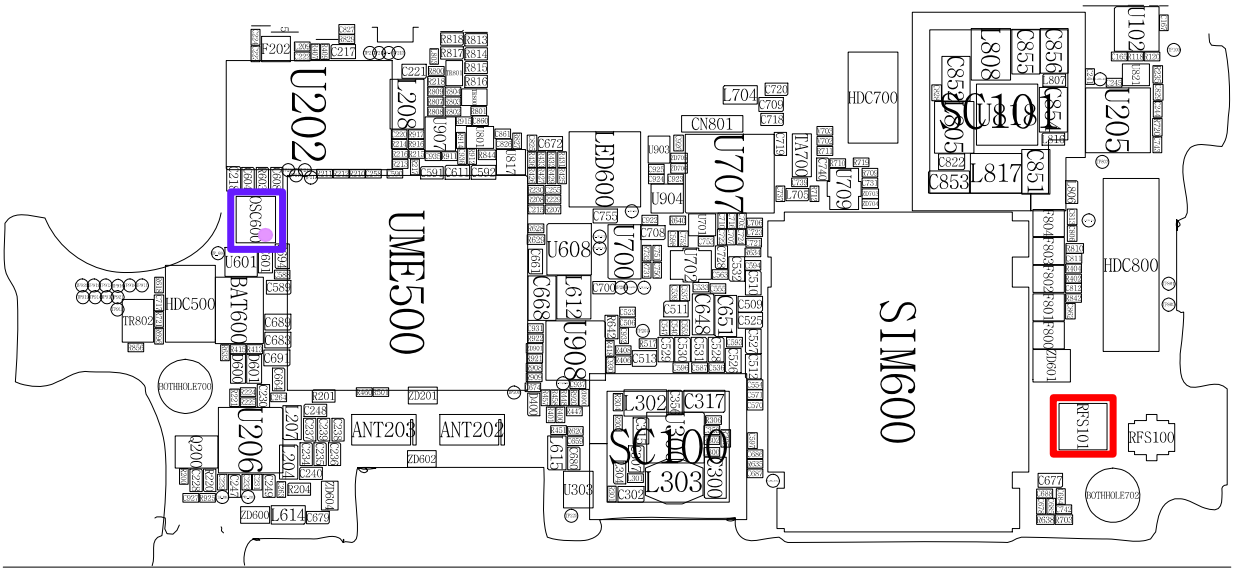

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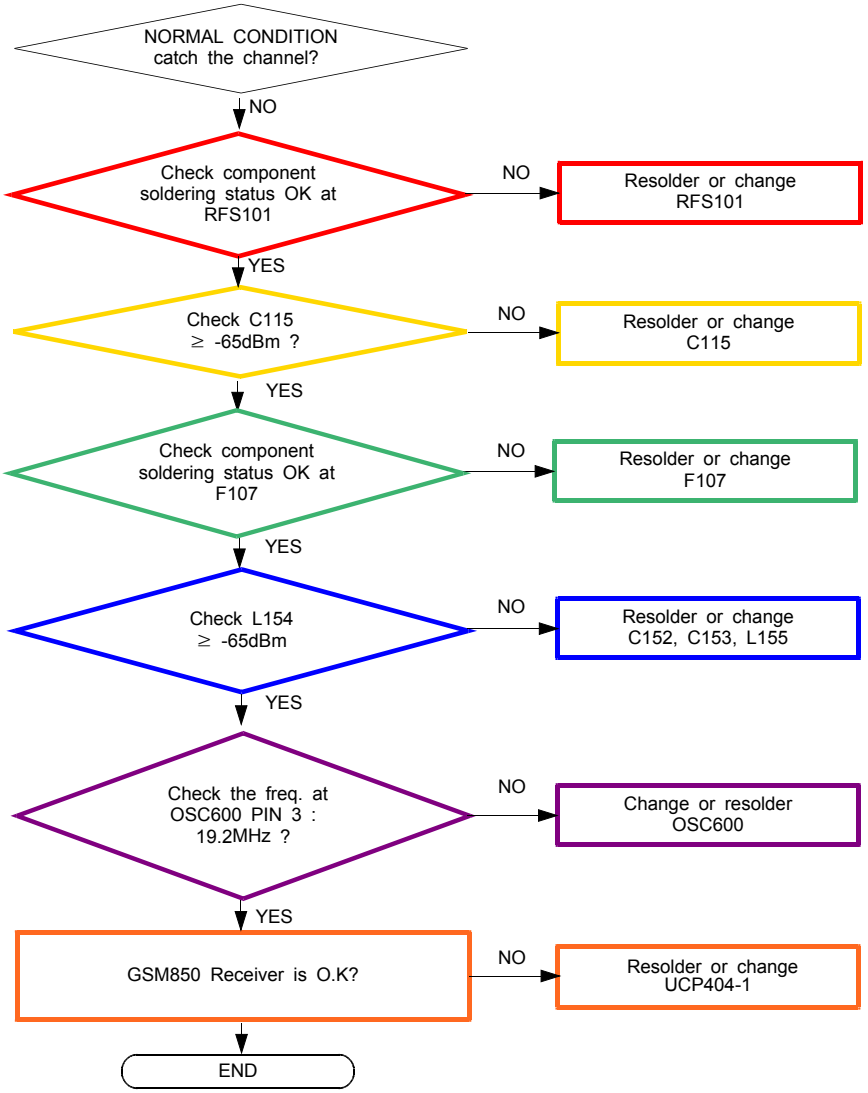
8-3-24. WCDMA850 RX

CONTINUOUS RX ON
RF INPUT : 4407 CH (DL)
AMP : -50dBm



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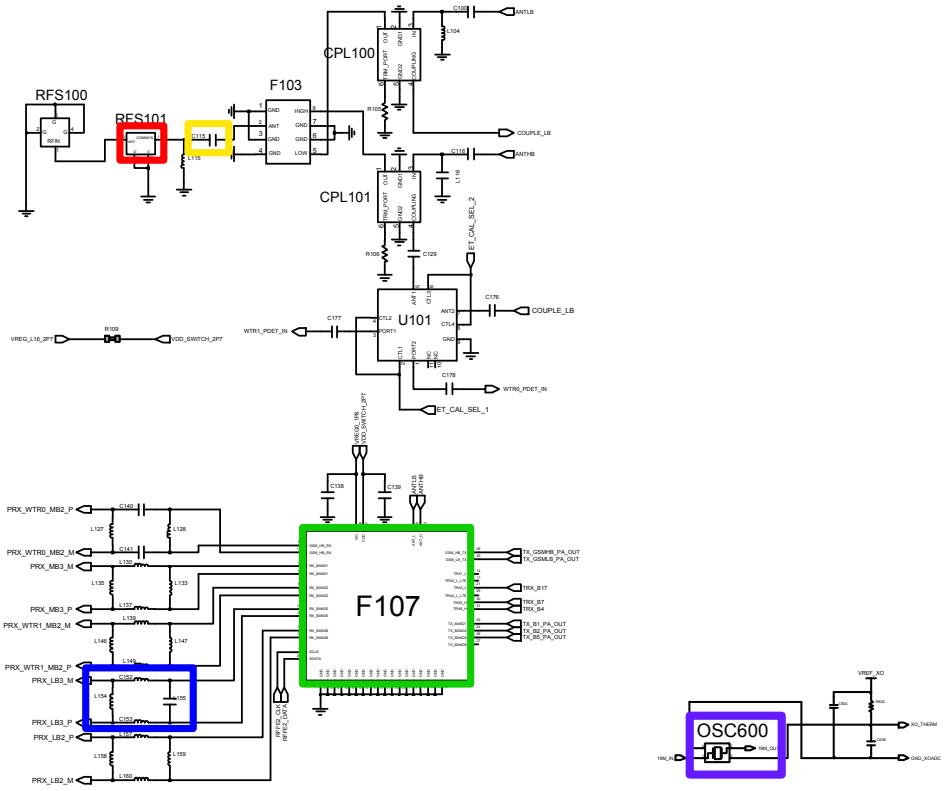

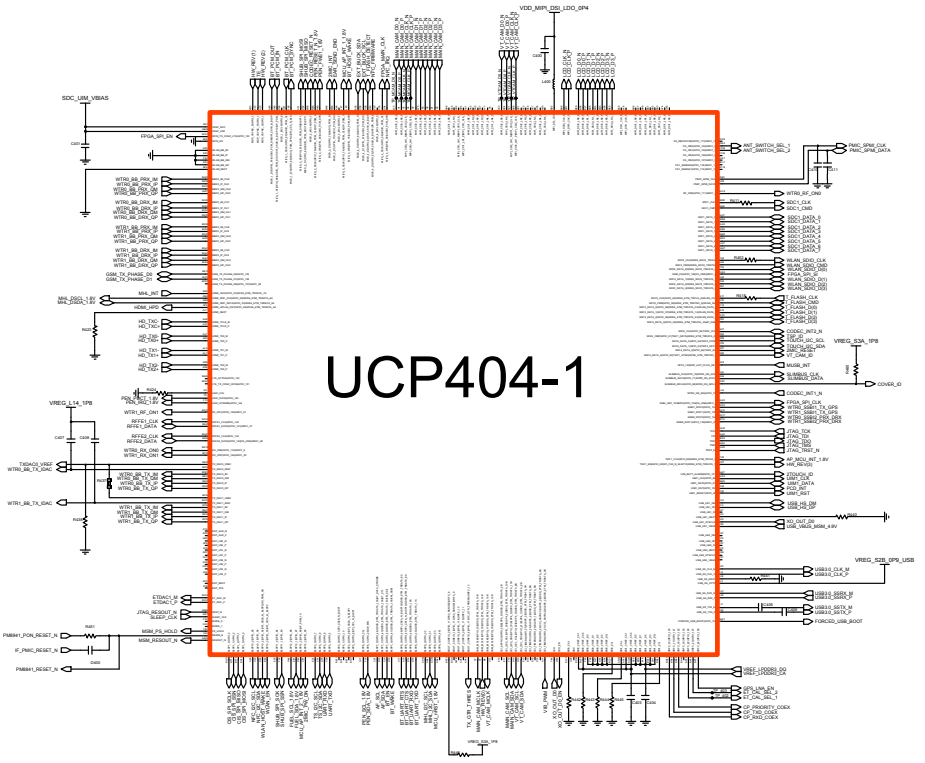

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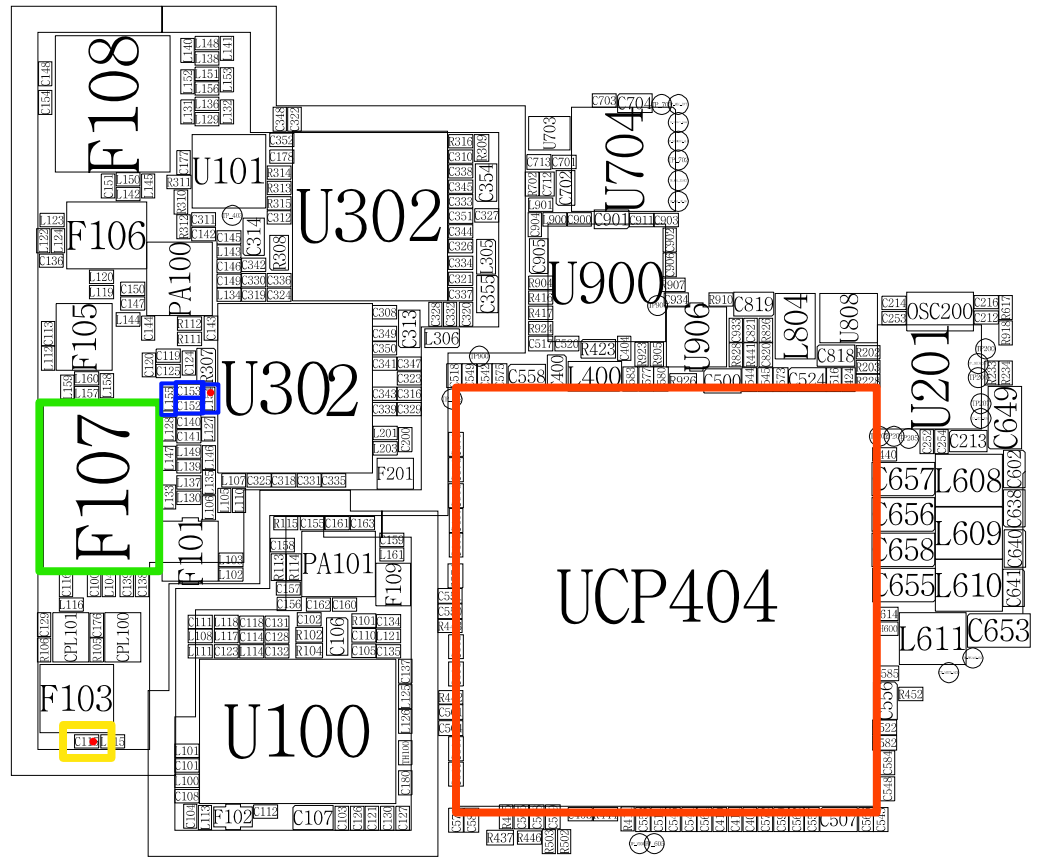

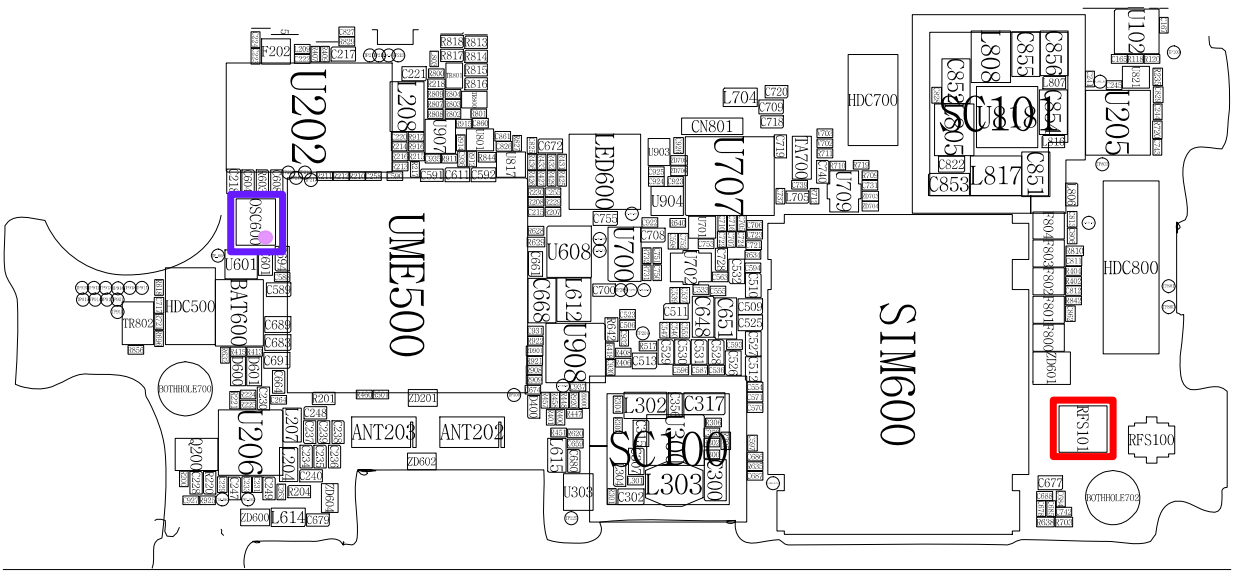

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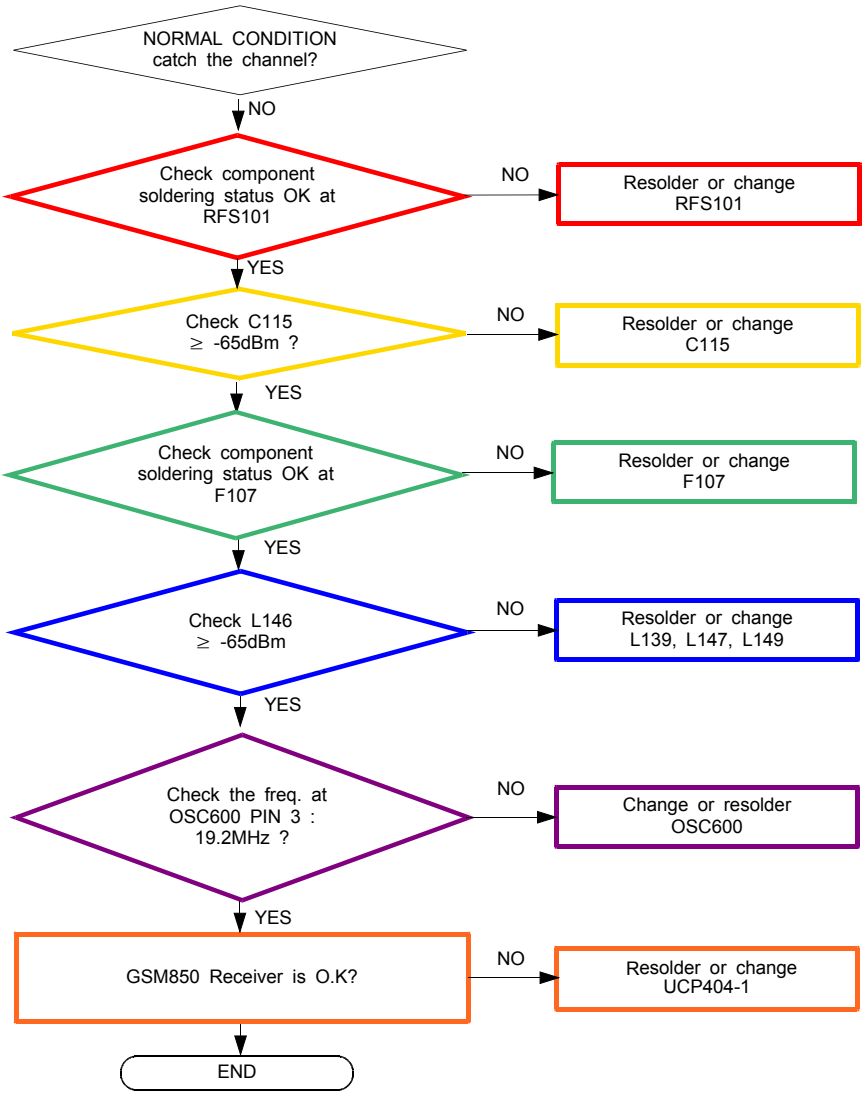
8-3-25. WCDMA1900 RX

CONTINUOUS RX ON
RF INPUT : 9800 CH (DL)
AMP : -50dBm



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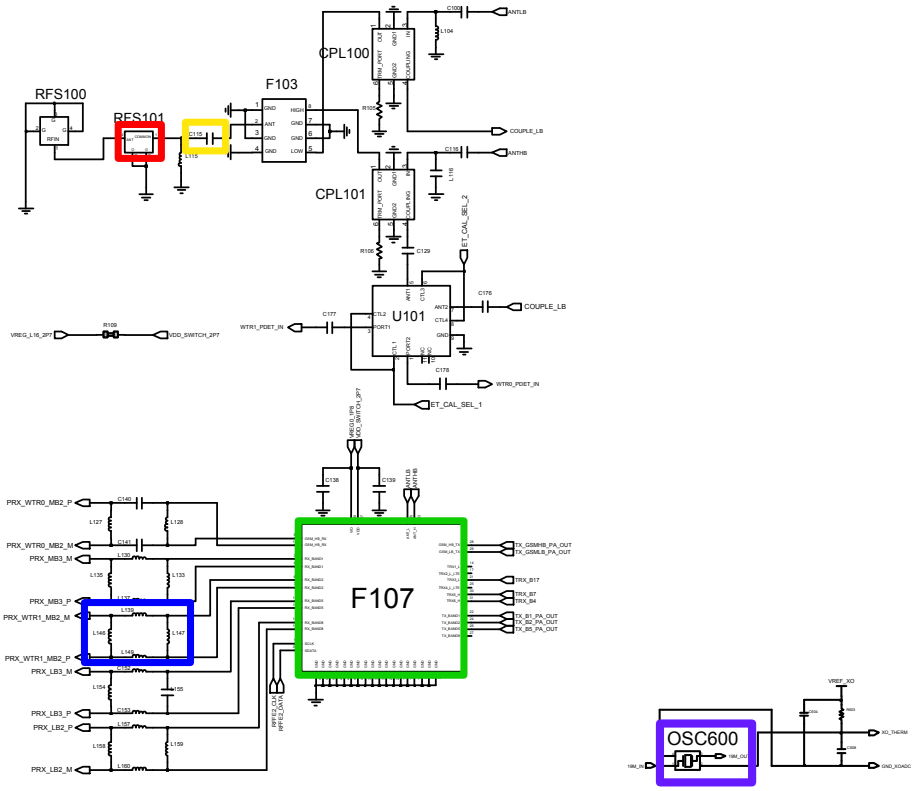

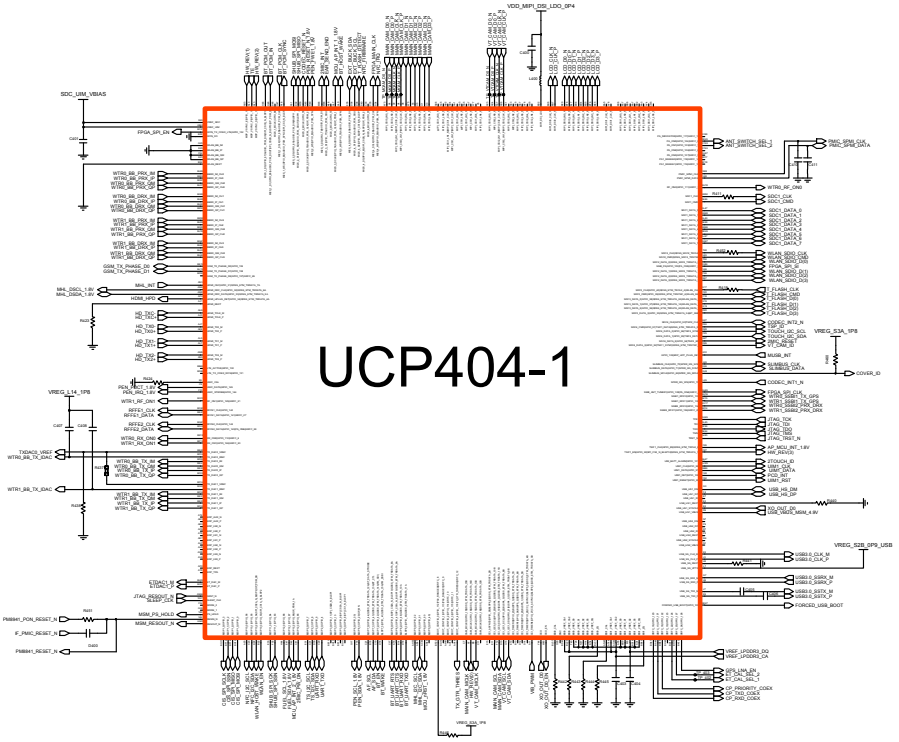

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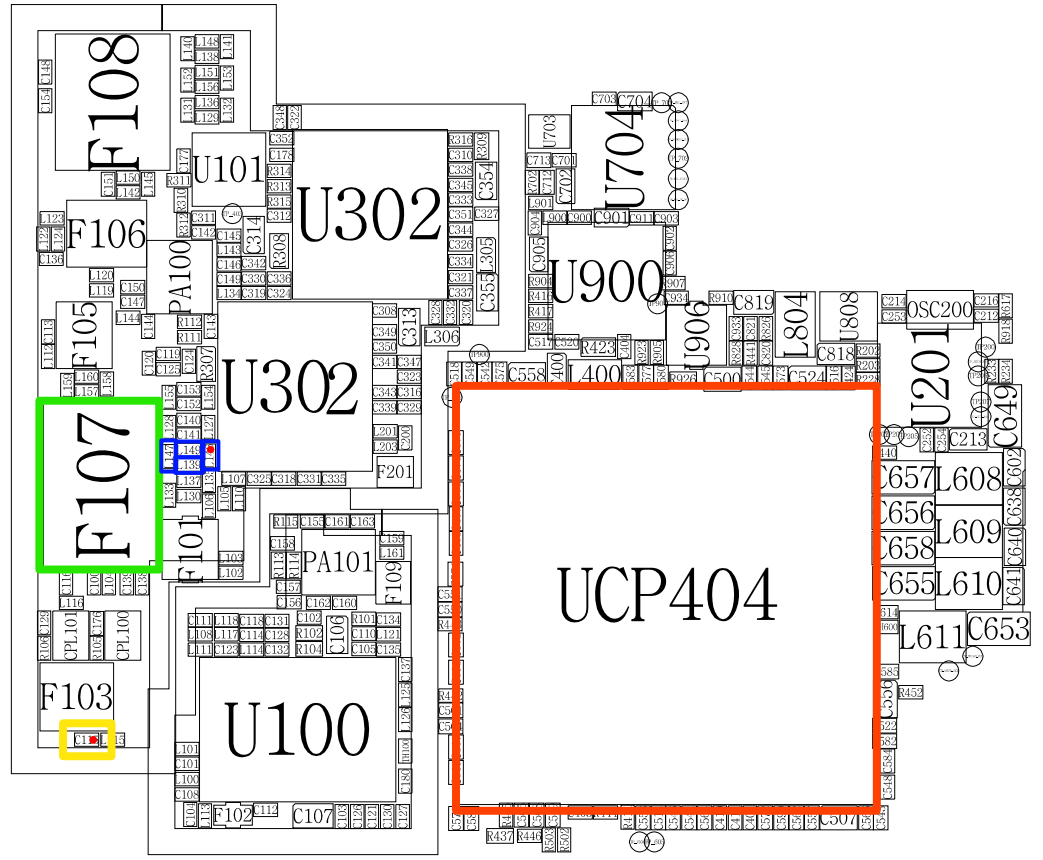

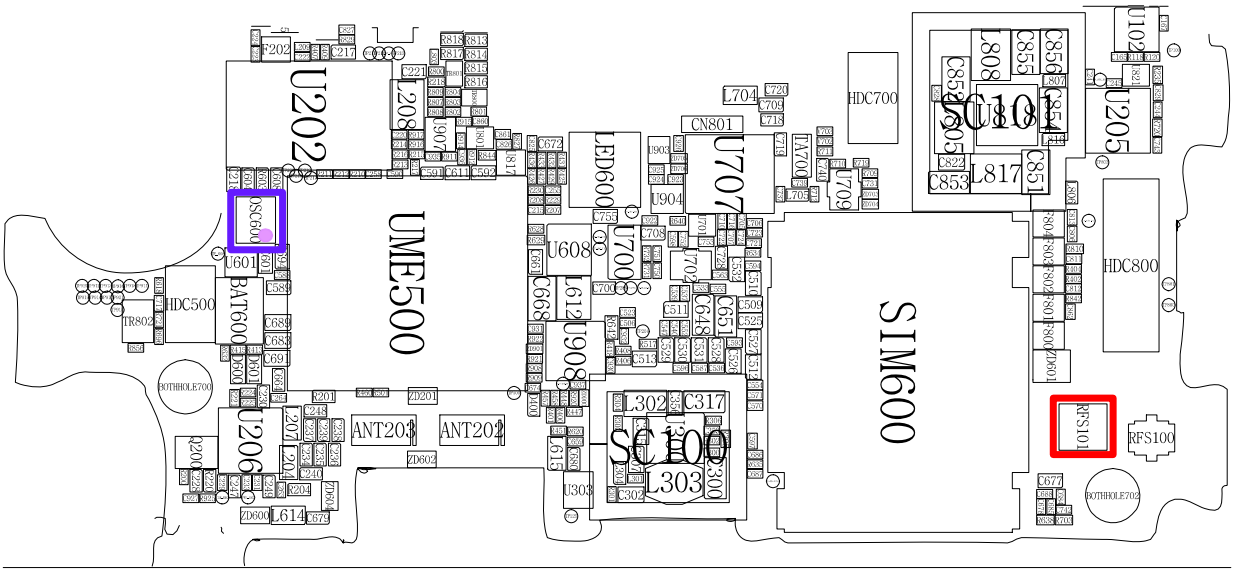

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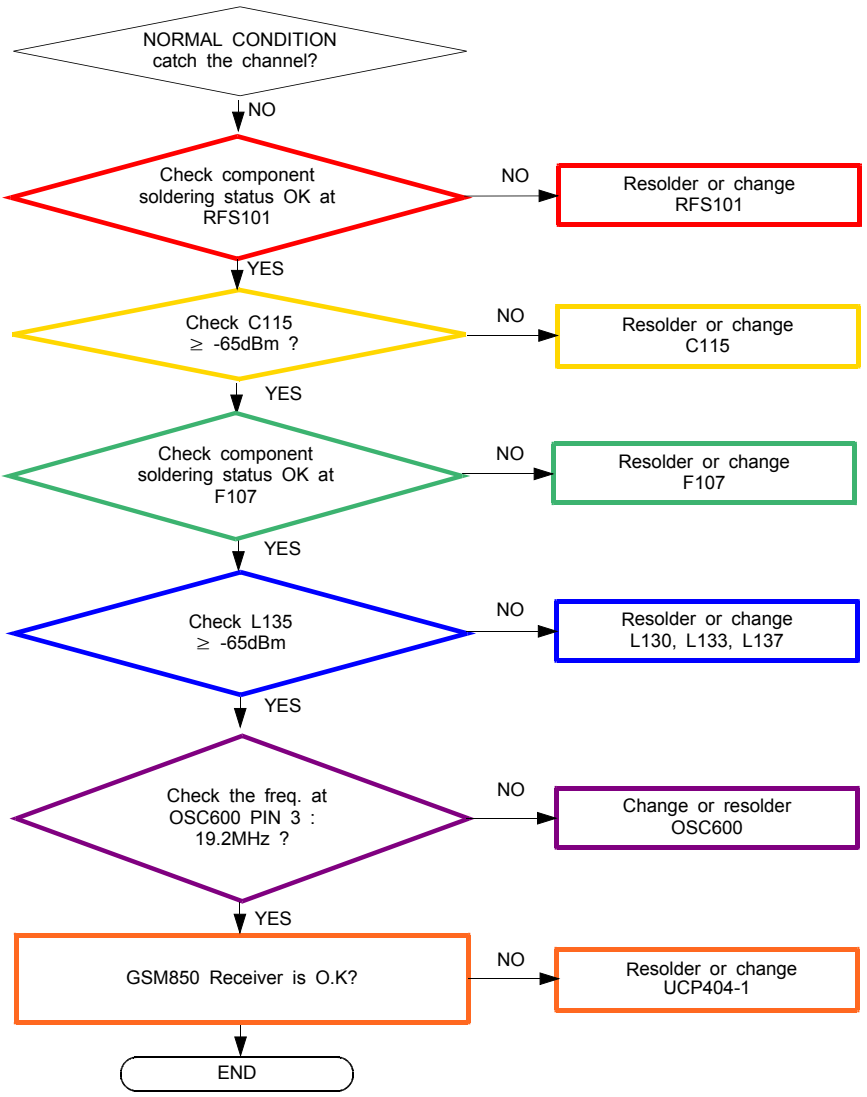
8-3-26. LTE B1 RX

CONTINUOUS RX ON
RF INPUT : 300 CH (DL)
AMP : -50dBm



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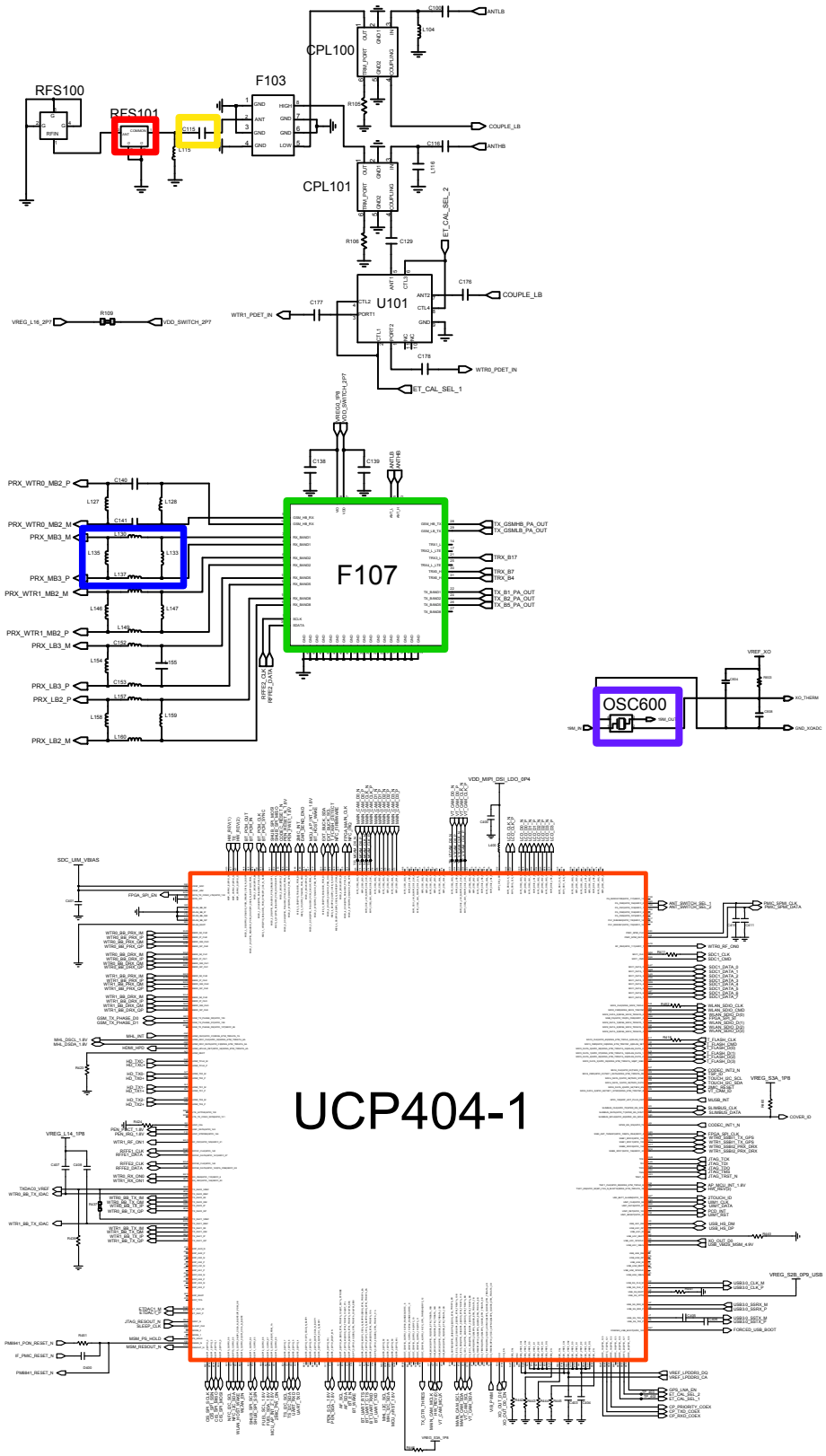

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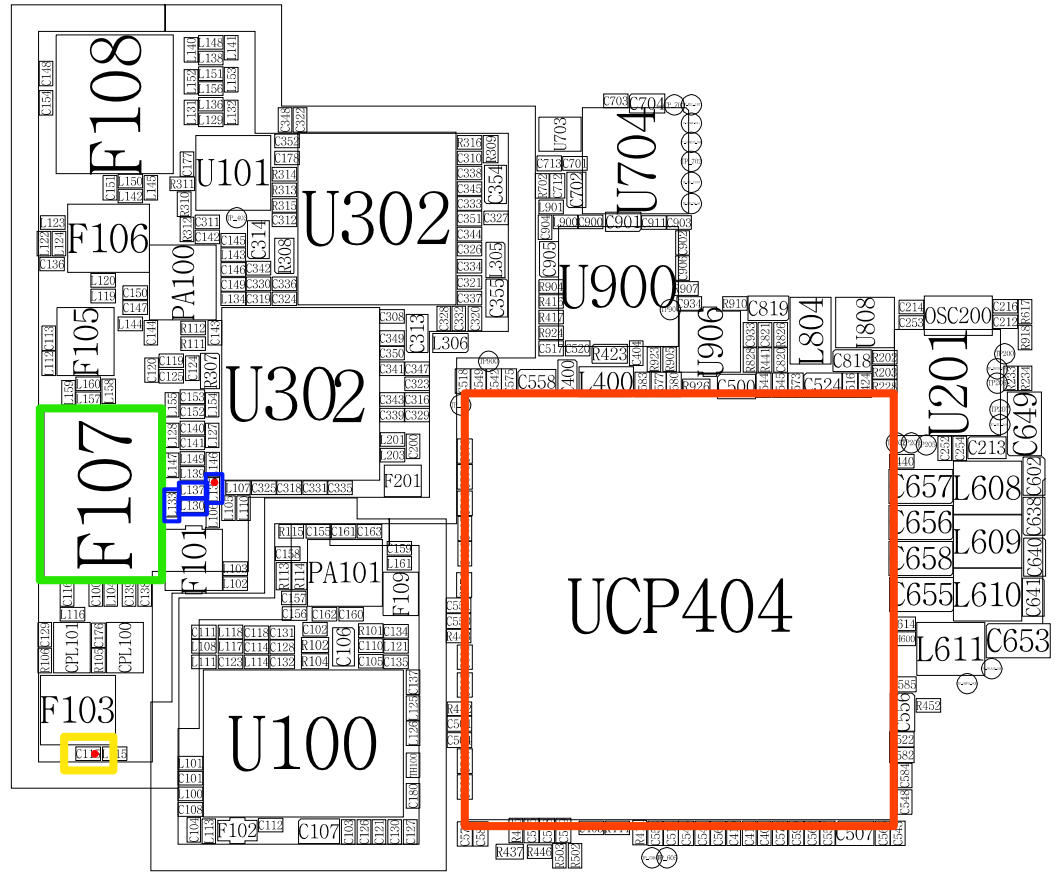

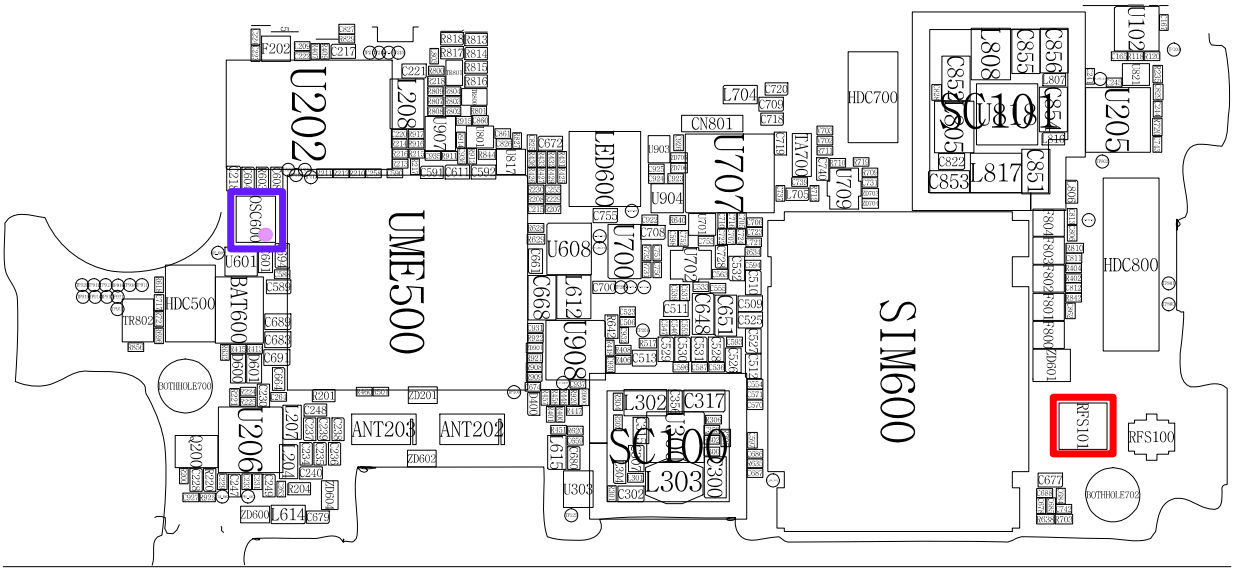

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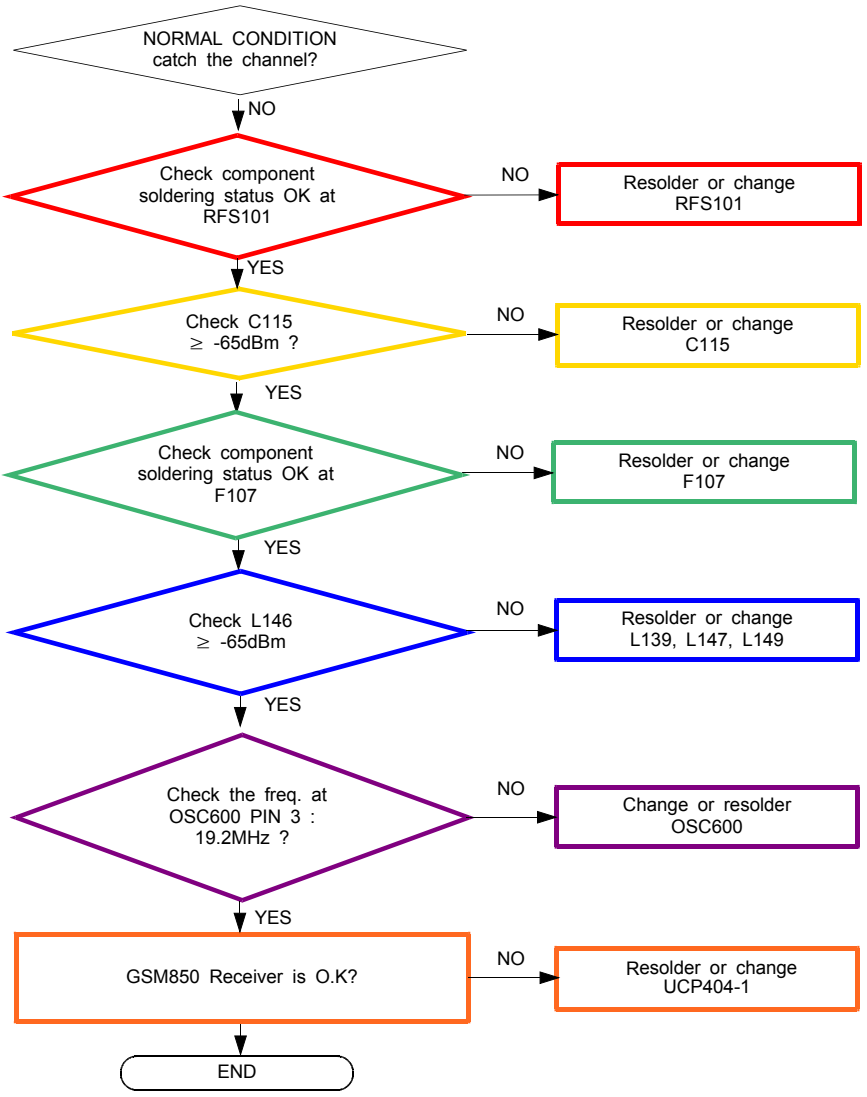
8-3-27. LTE B2 RX

CONTINUOUS RX ON
RF INPUT : 900 CH (DL)
AMP : -50dBm



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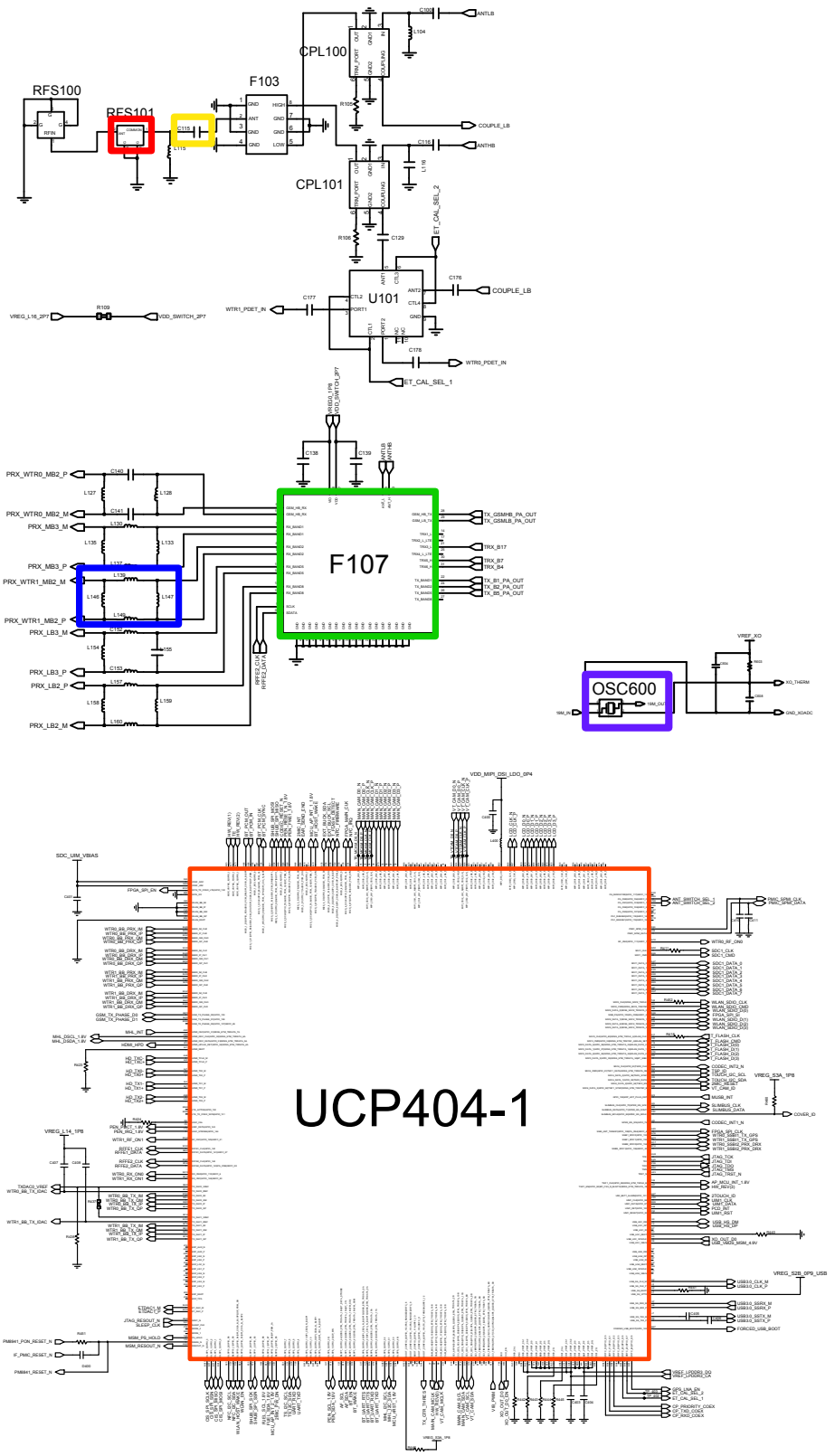

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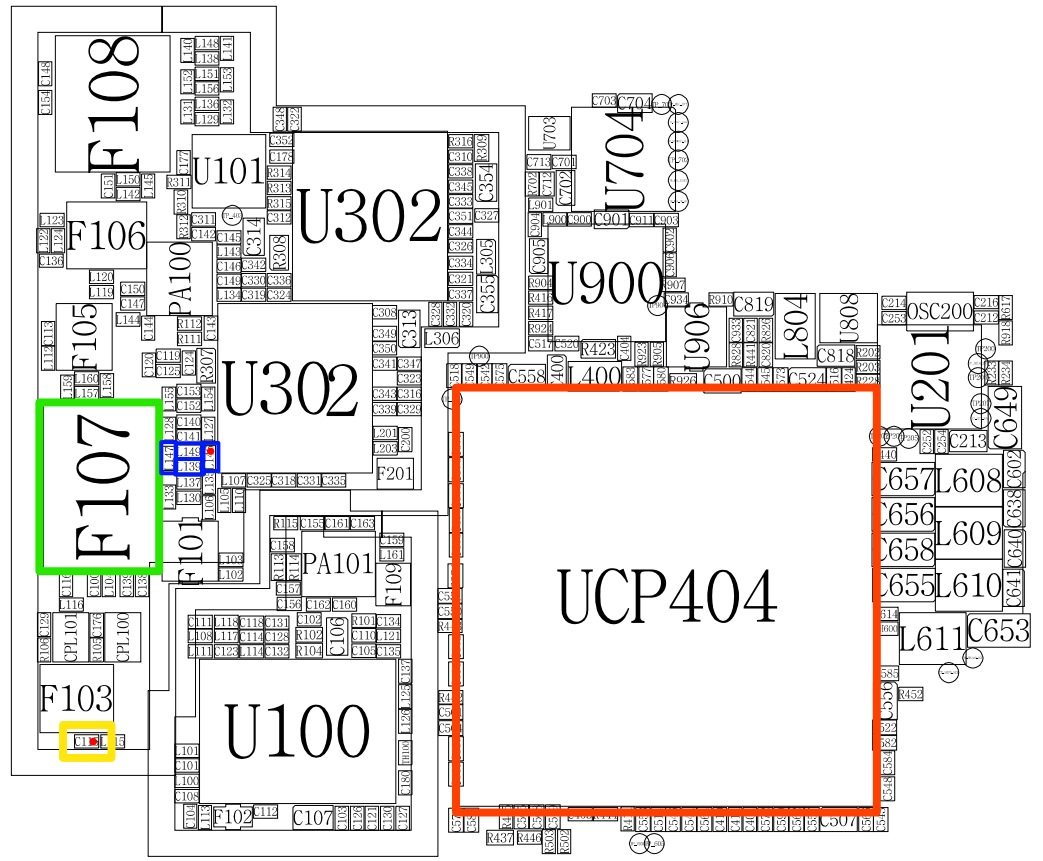

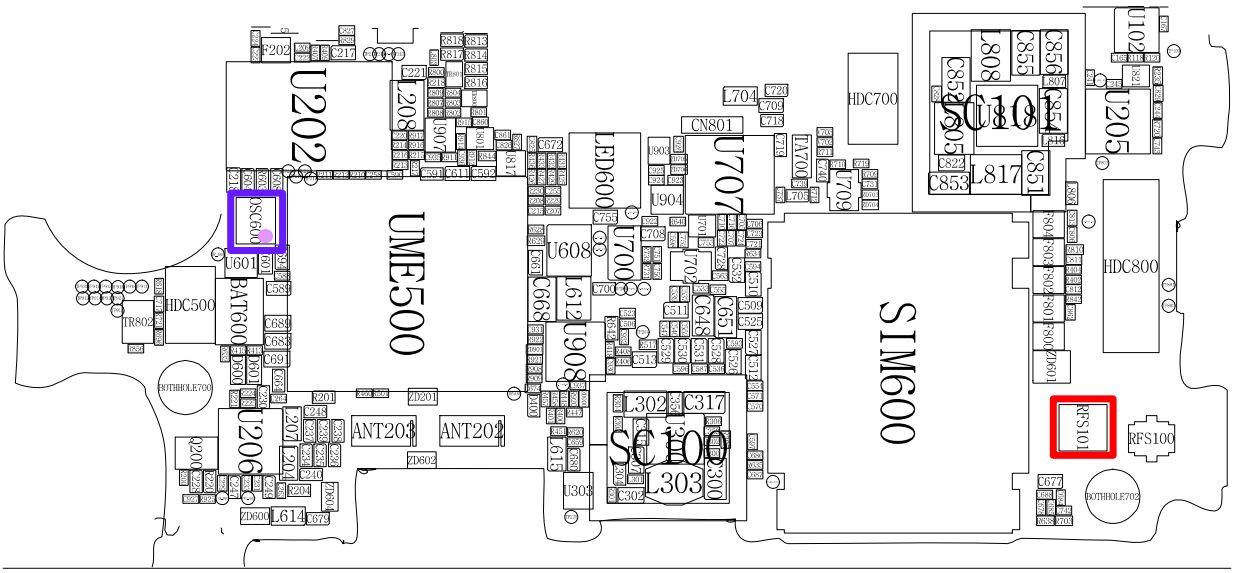

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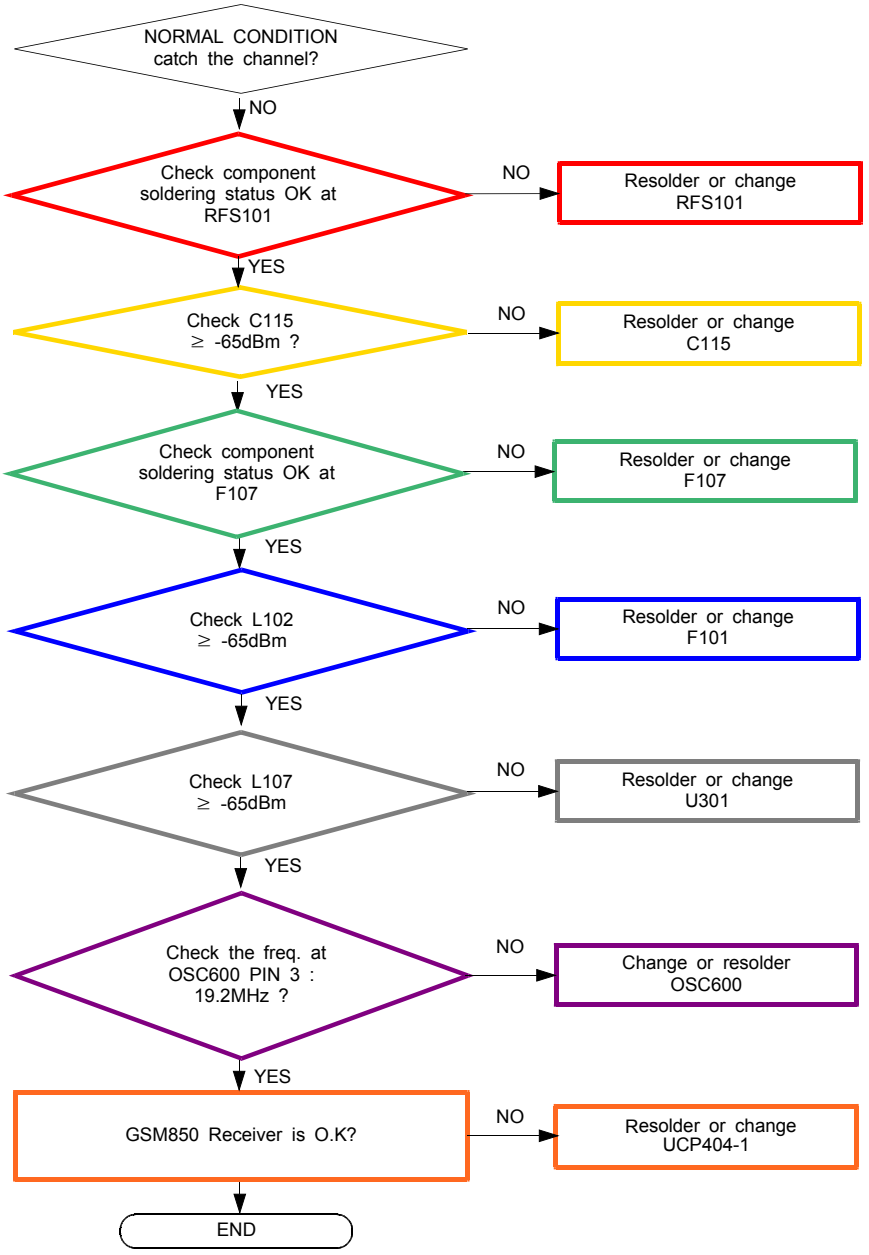
8-3-28. LTE B4 RX

CONTINUOUS RX ON
RF INPUT : 2175 CH (DL)
AMP : -50dBm



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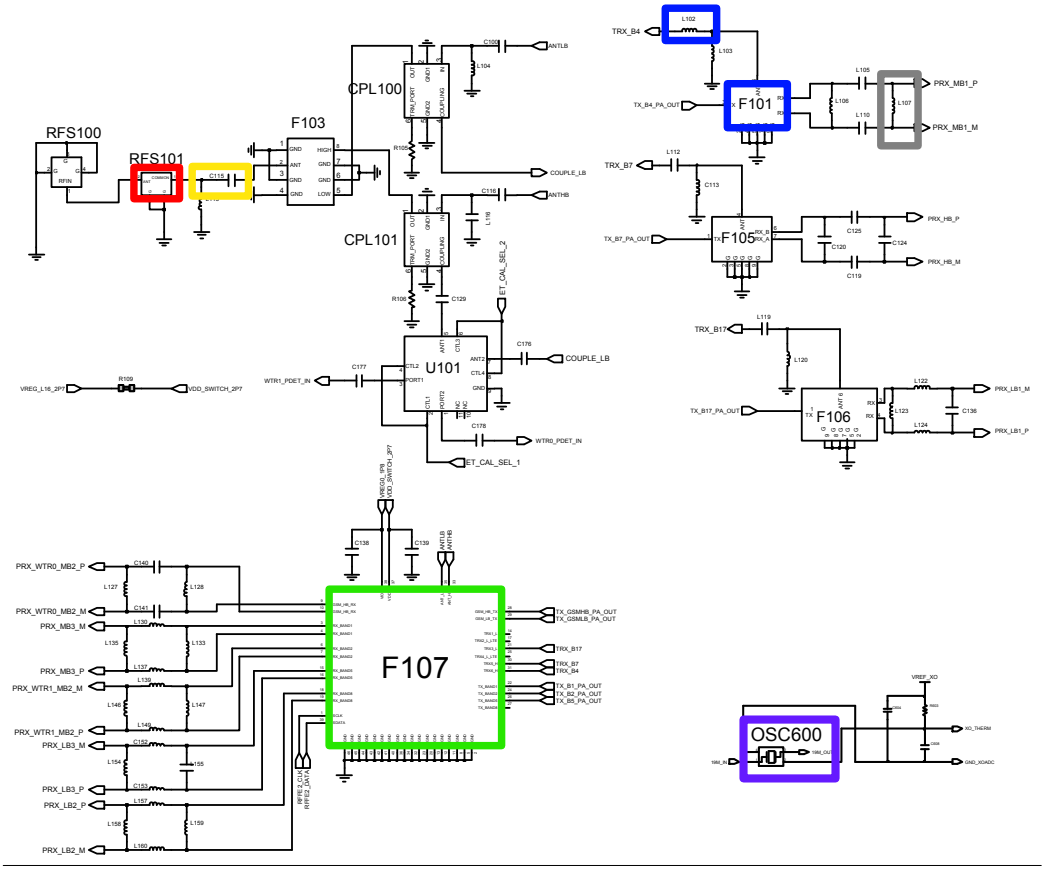

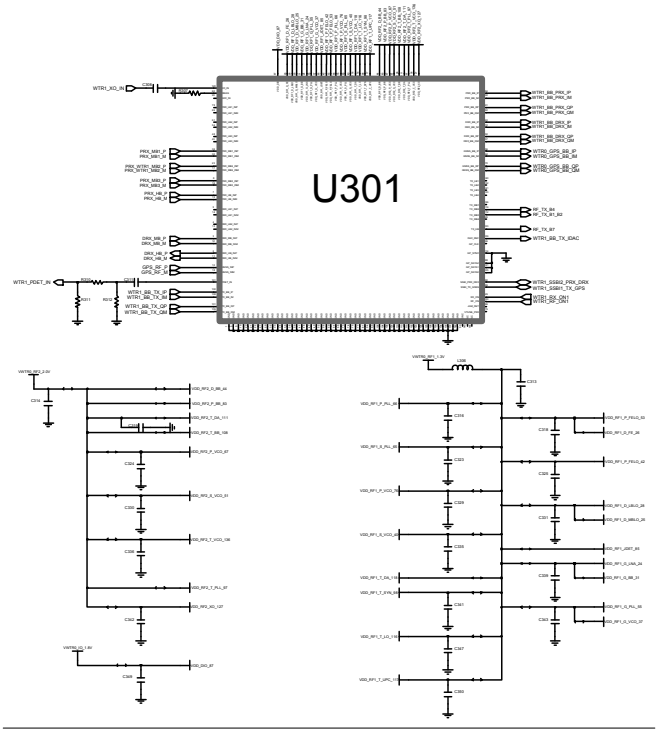

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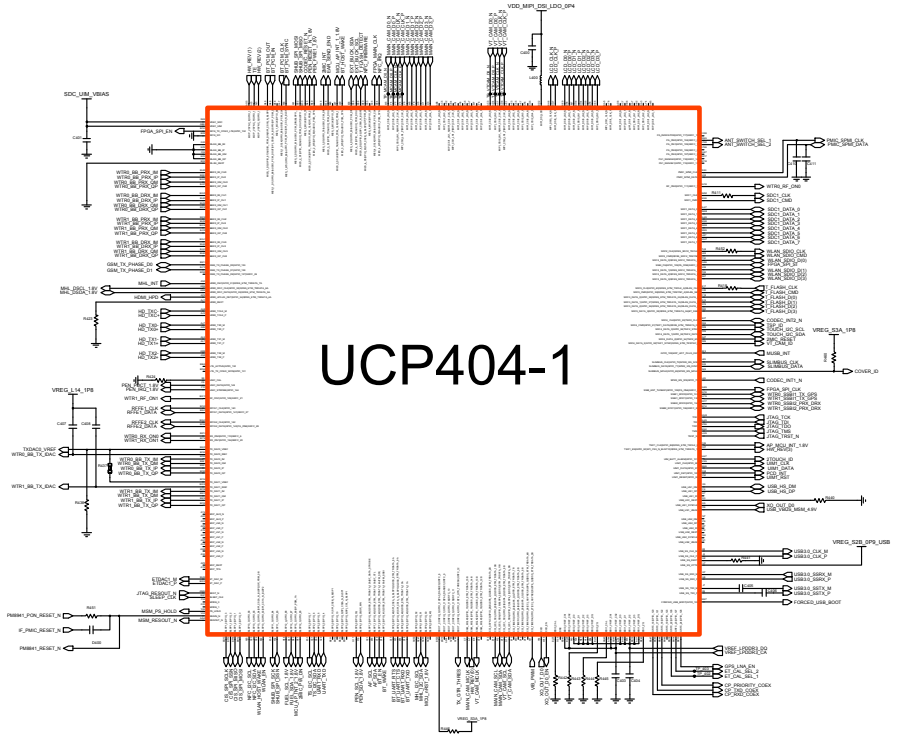

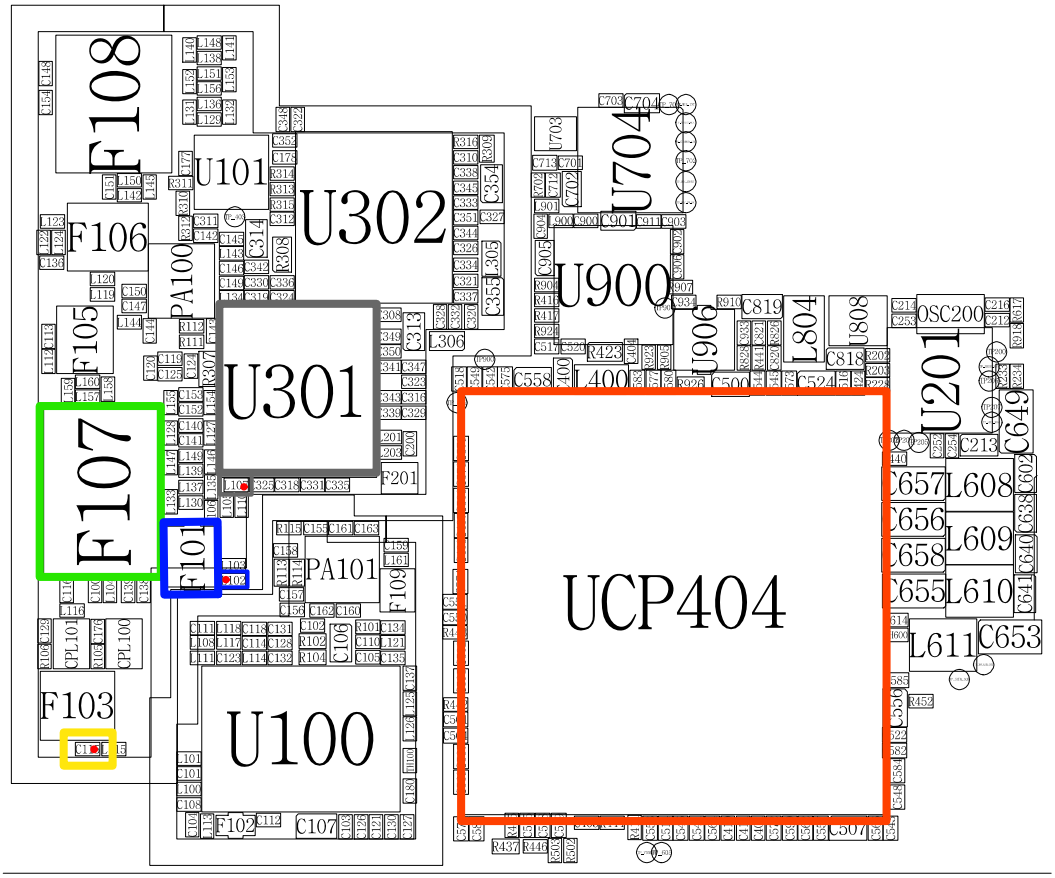

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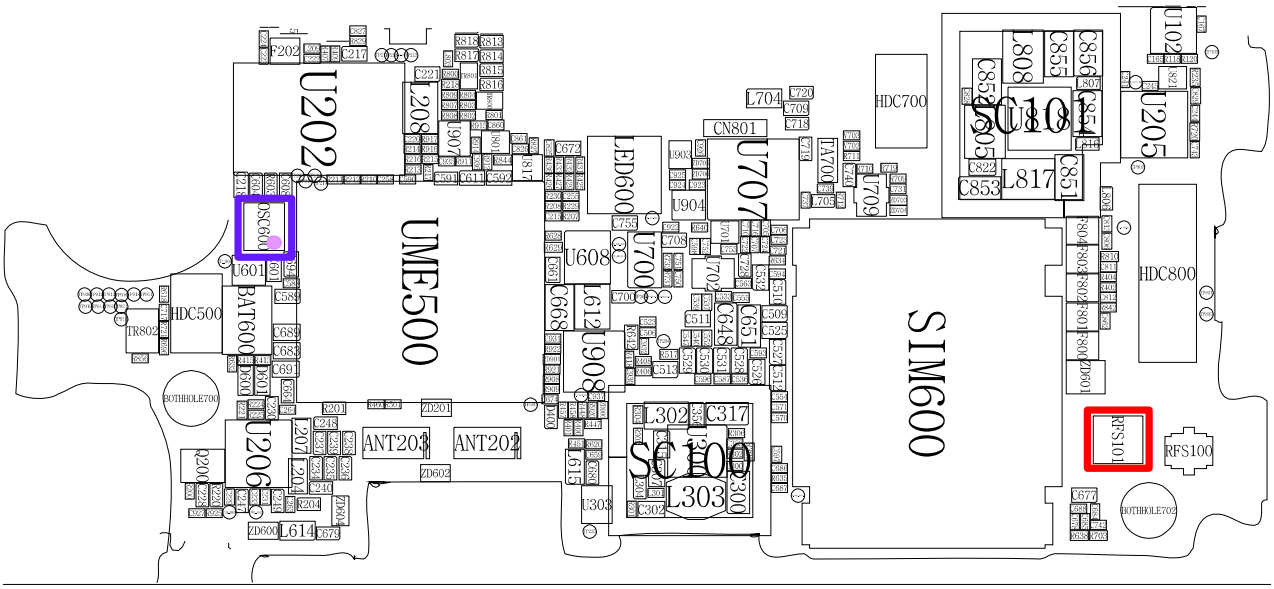

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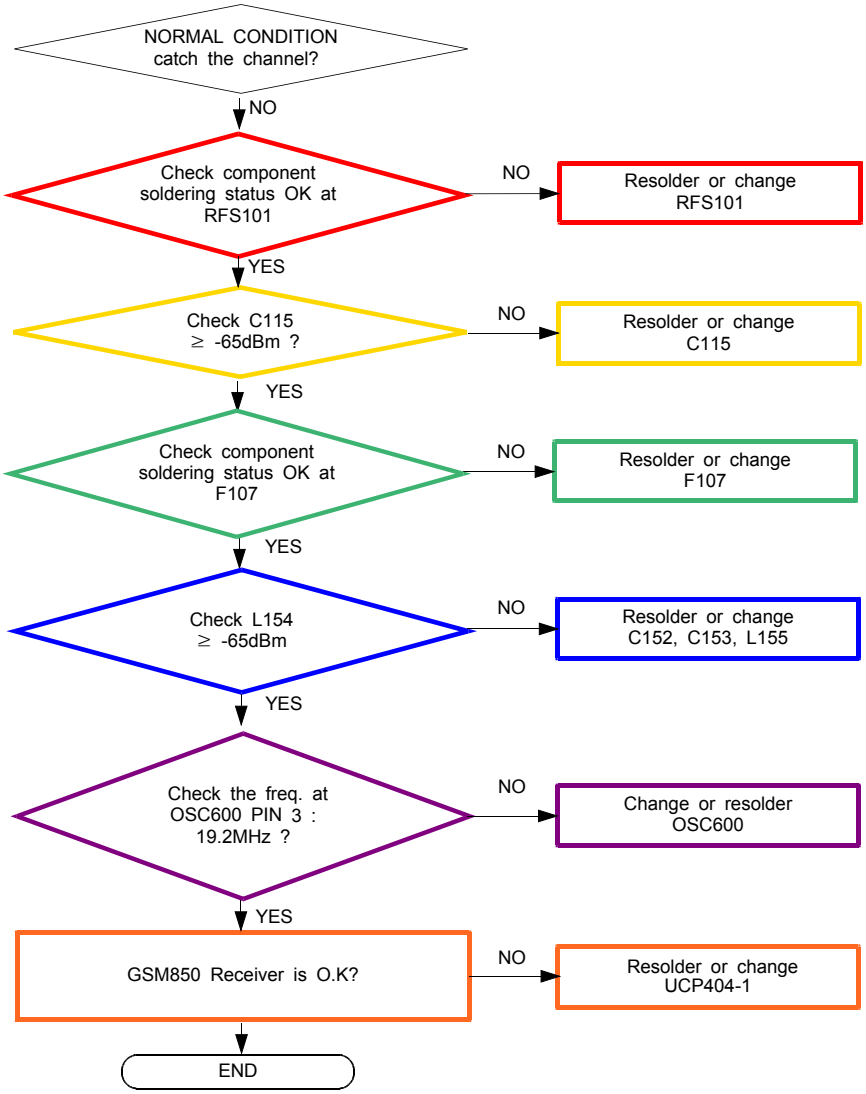
8-3-29. LTE B5 RX

CONTINUOUS RX ON
RF INPUT : 2525 CH (DL)
AMP : -50dBm



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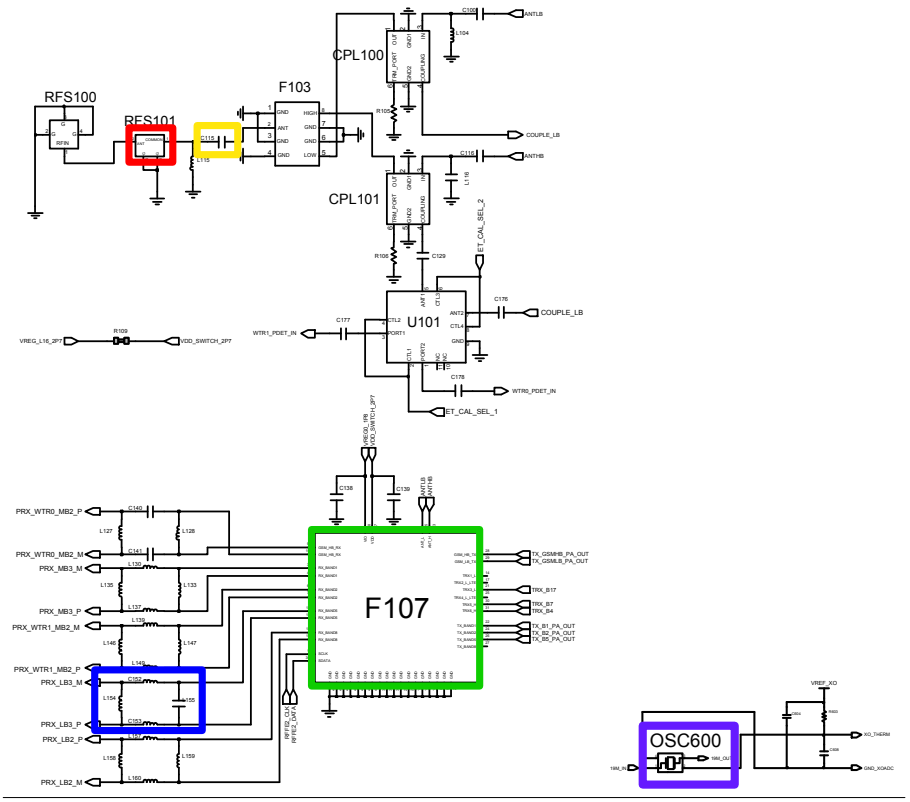

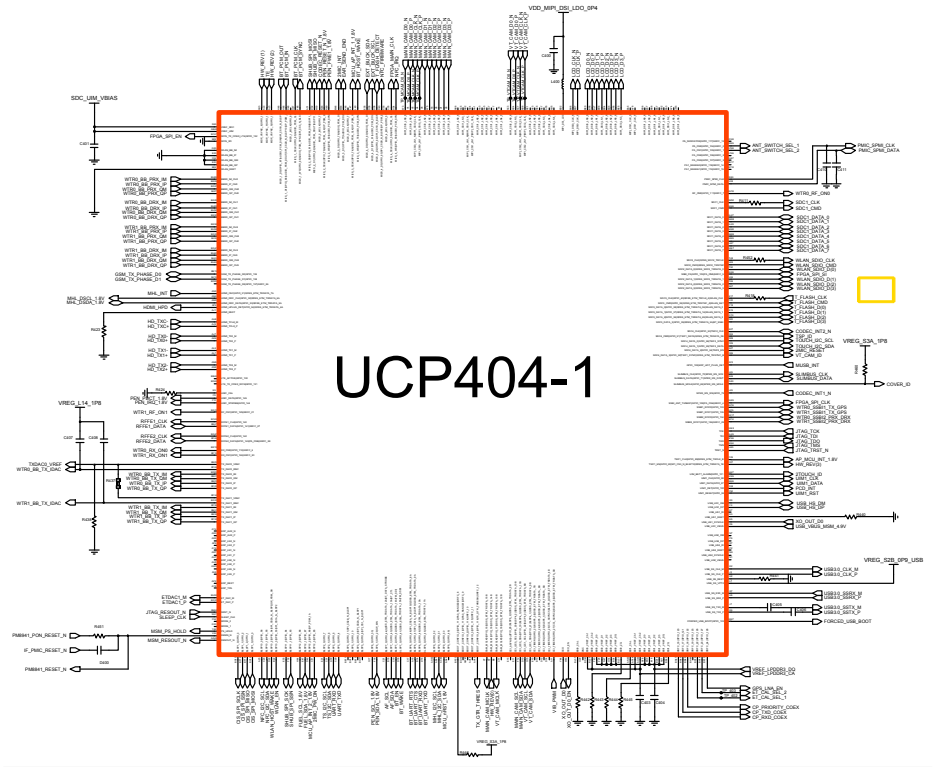

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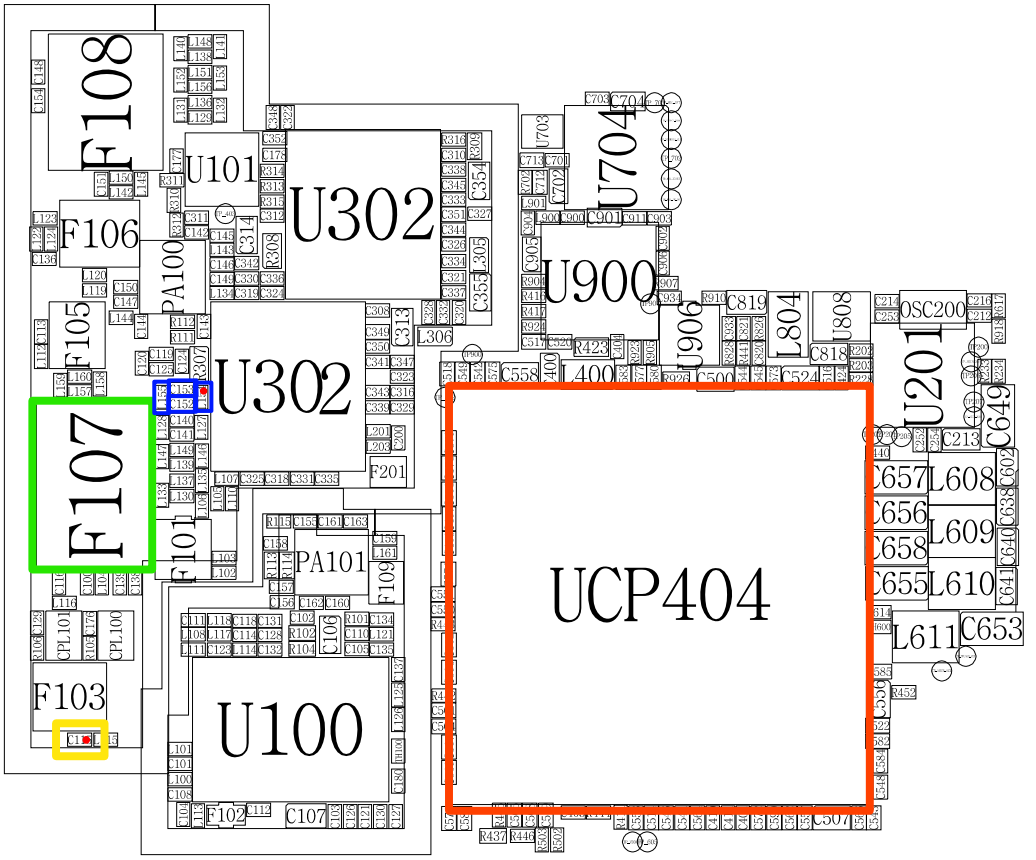

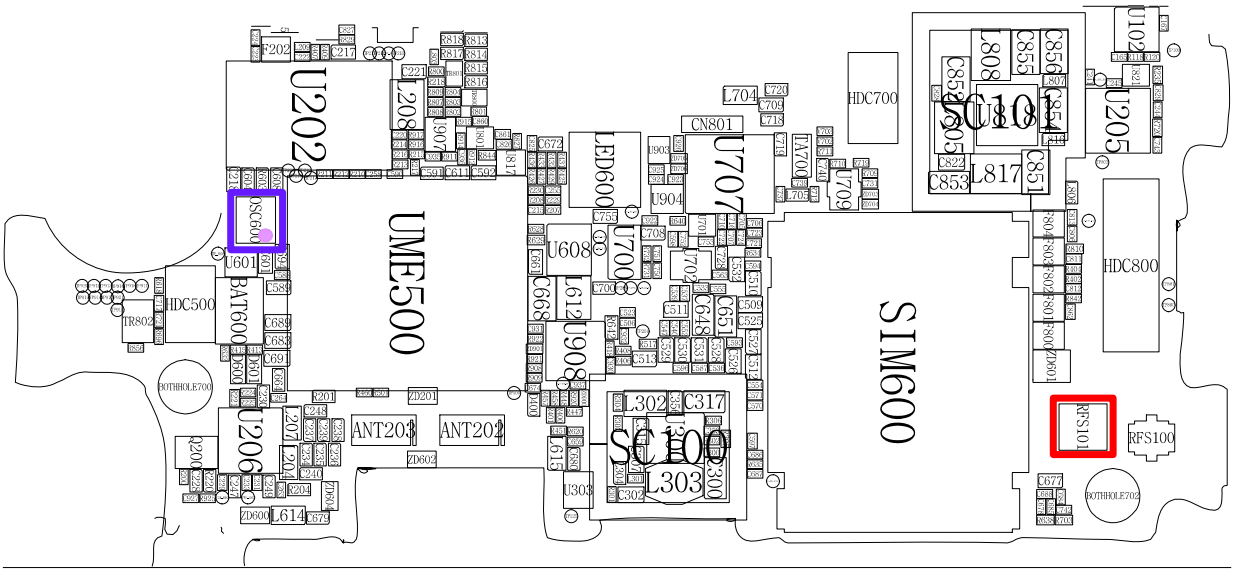

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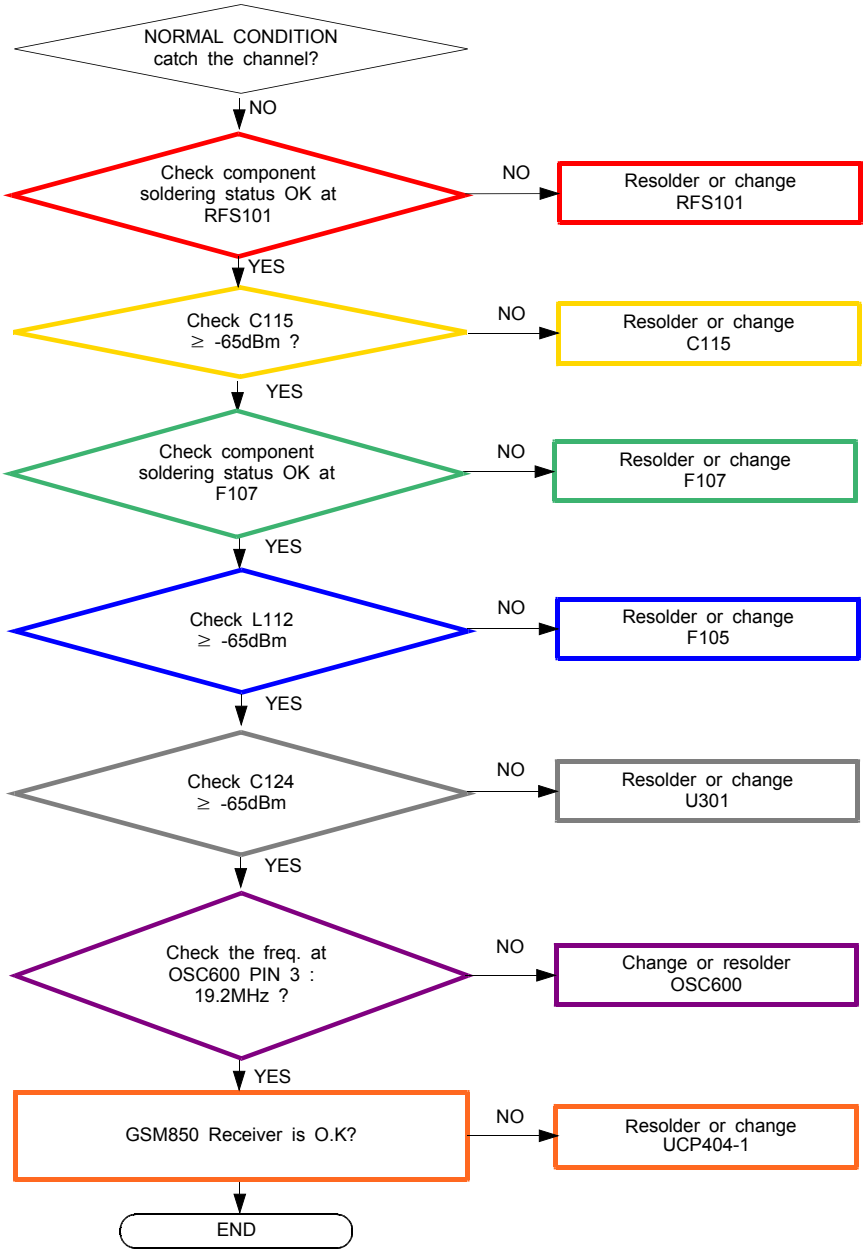
8-3-30. LTE B7 RX

CONTINUOUS RX ON
RF INPUT : 3100 CH (DL)
AMP : -50dBm



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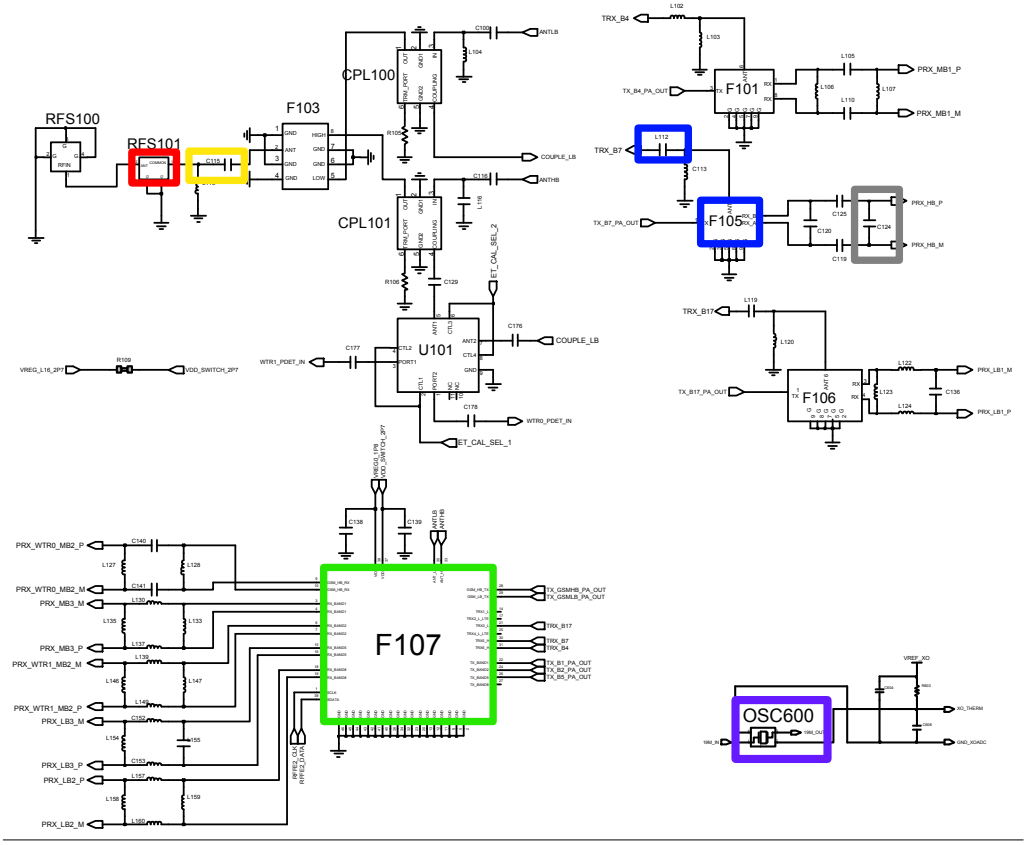

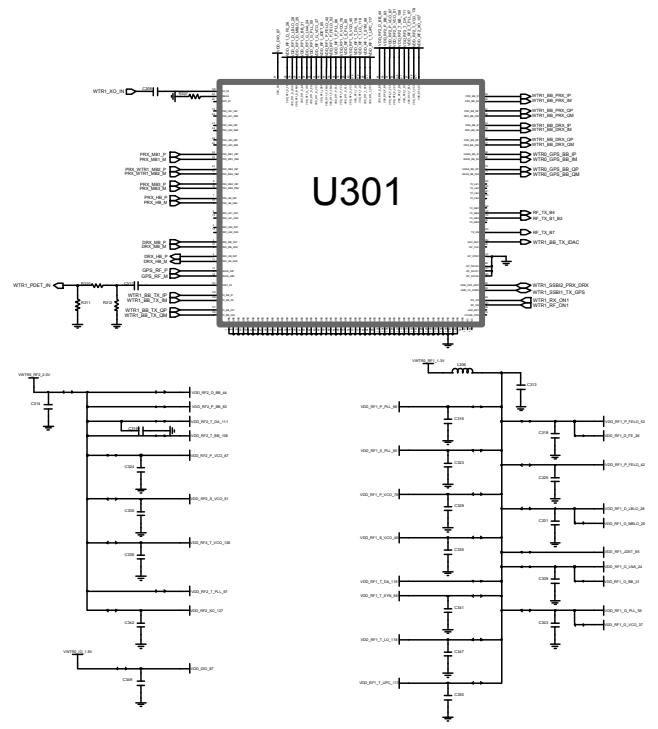

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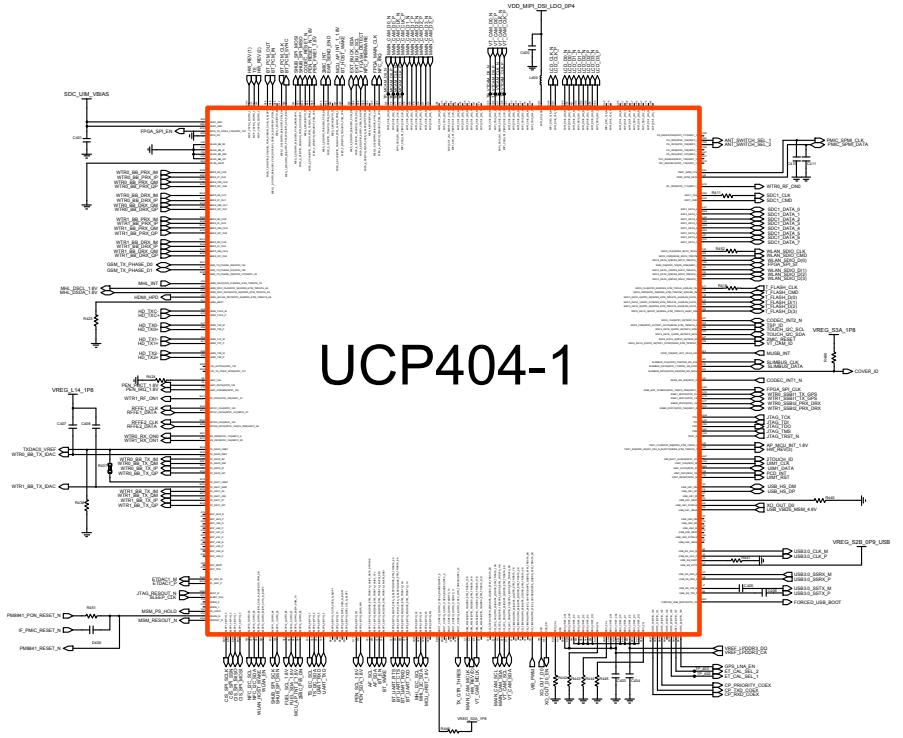

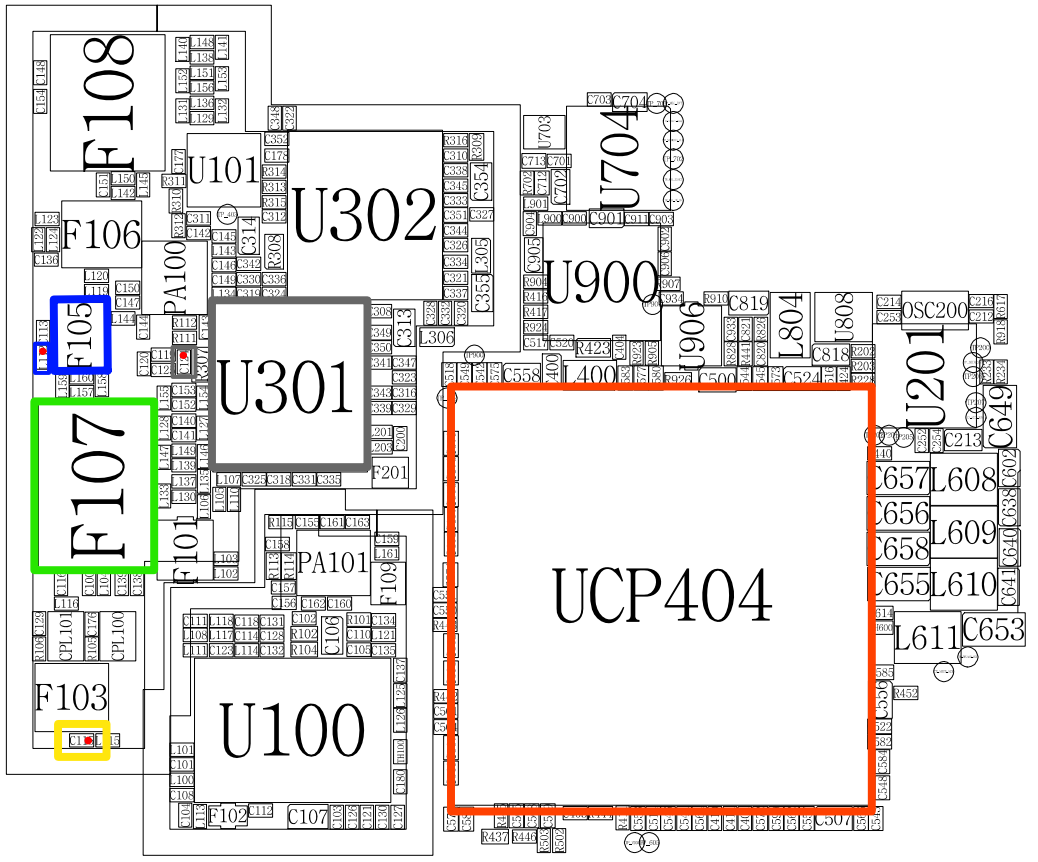

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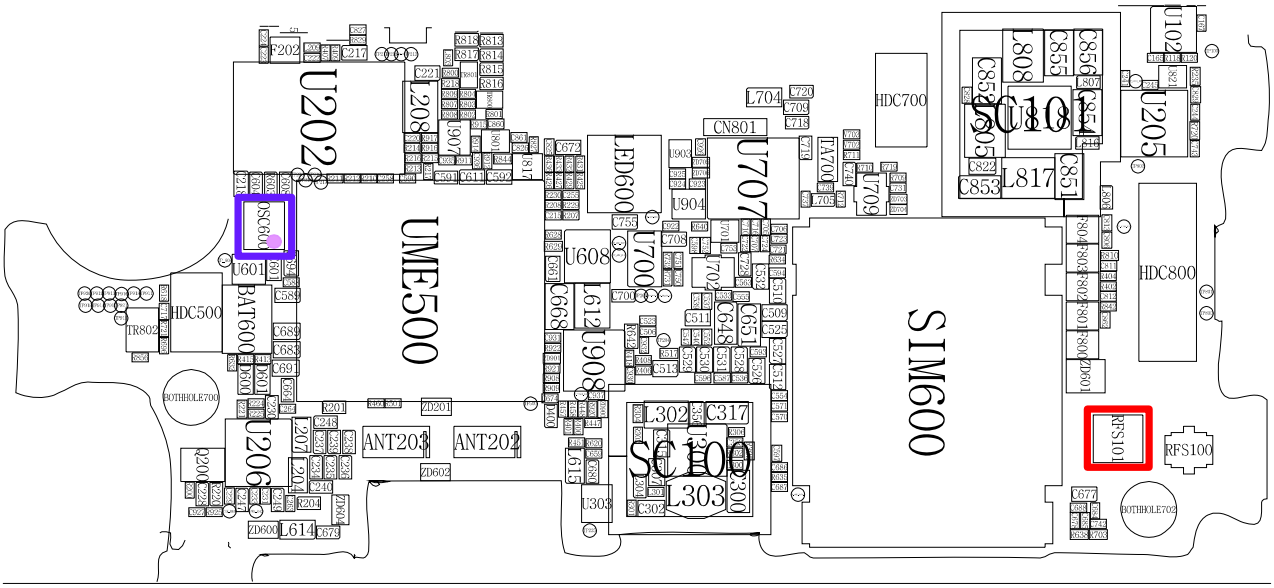

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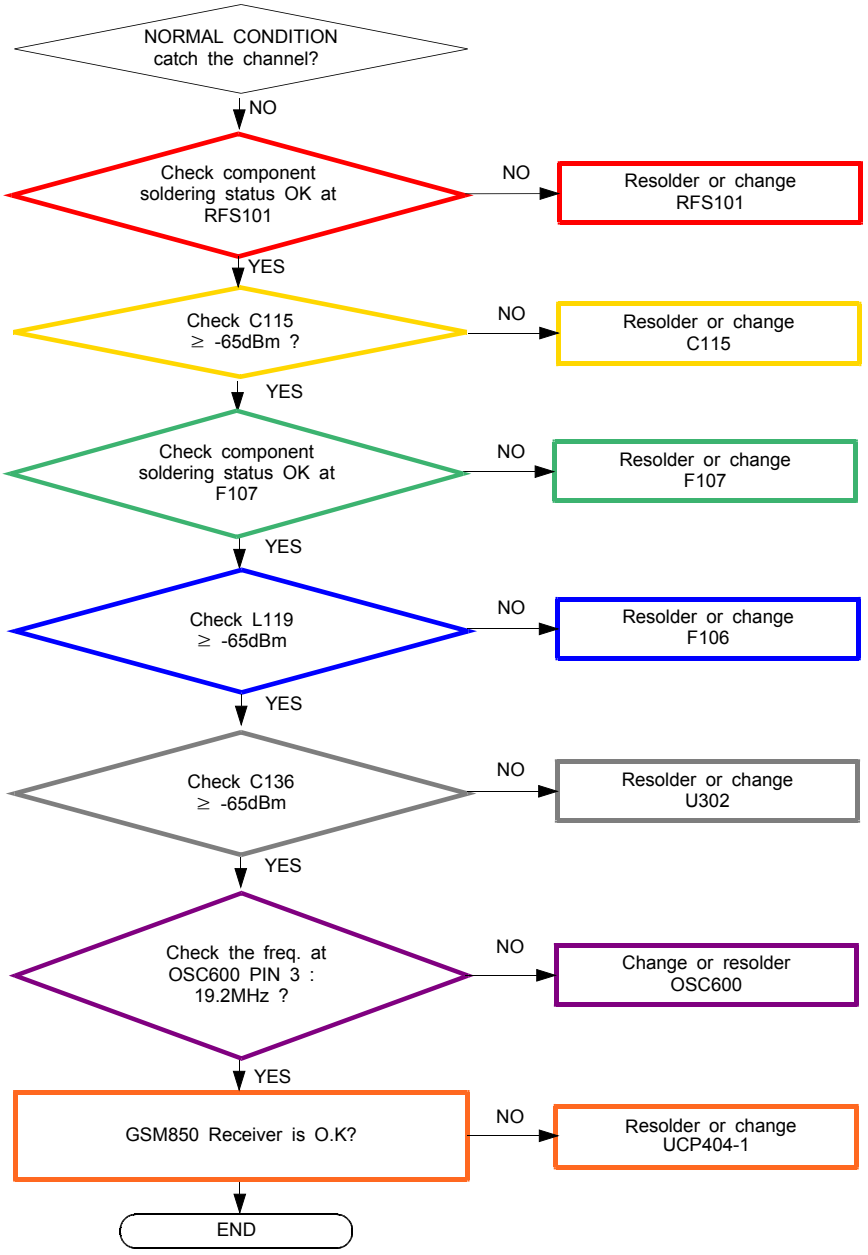
8-3-31. LTE B17 RX

CONTINUOUS RX ON
RF INPUT : 5790 CH (DL)
AMP : -50dBm



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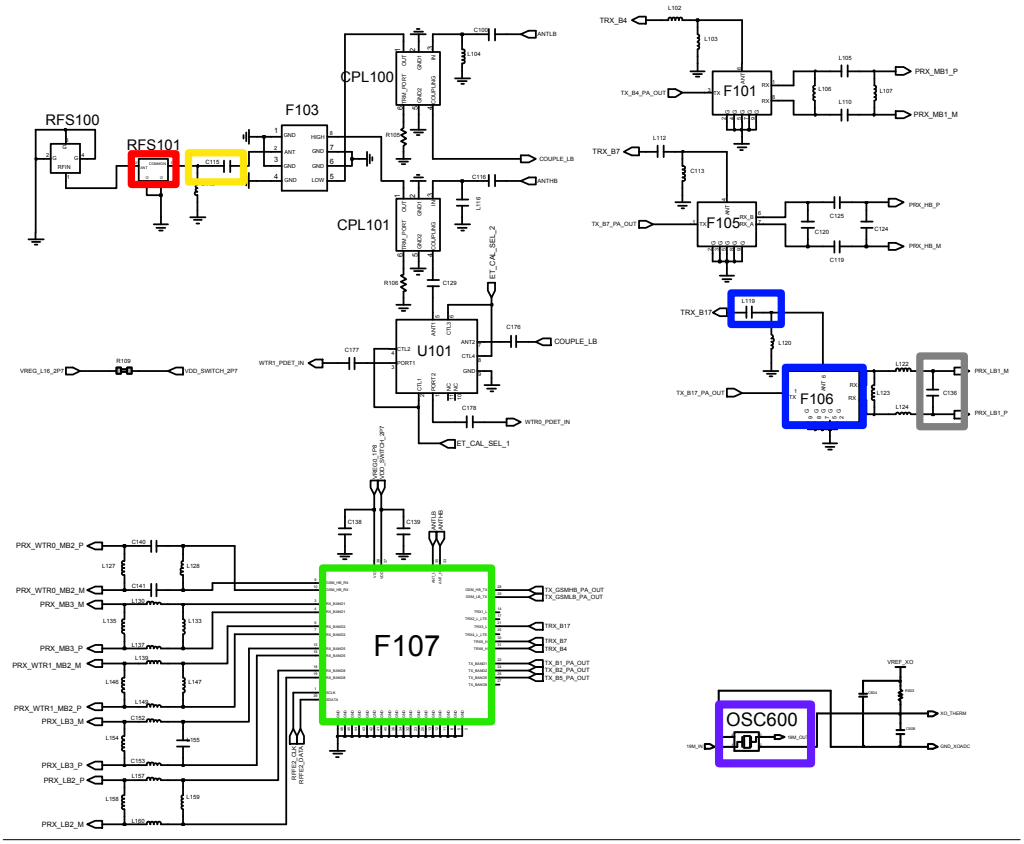

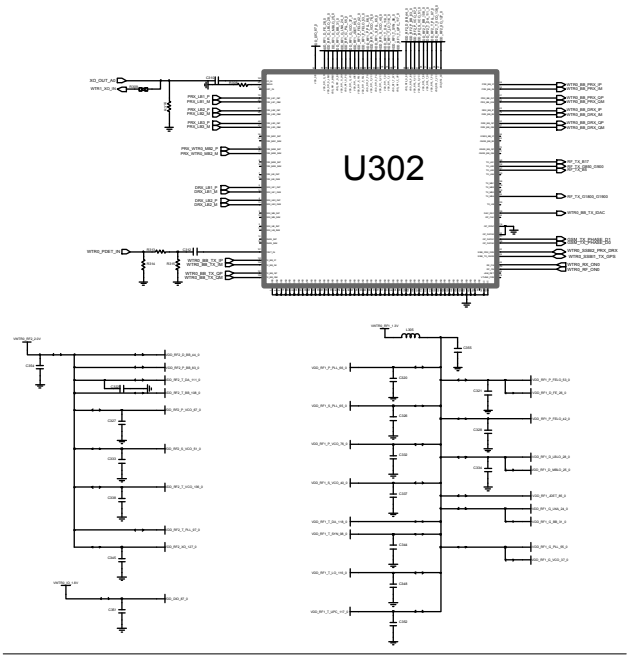

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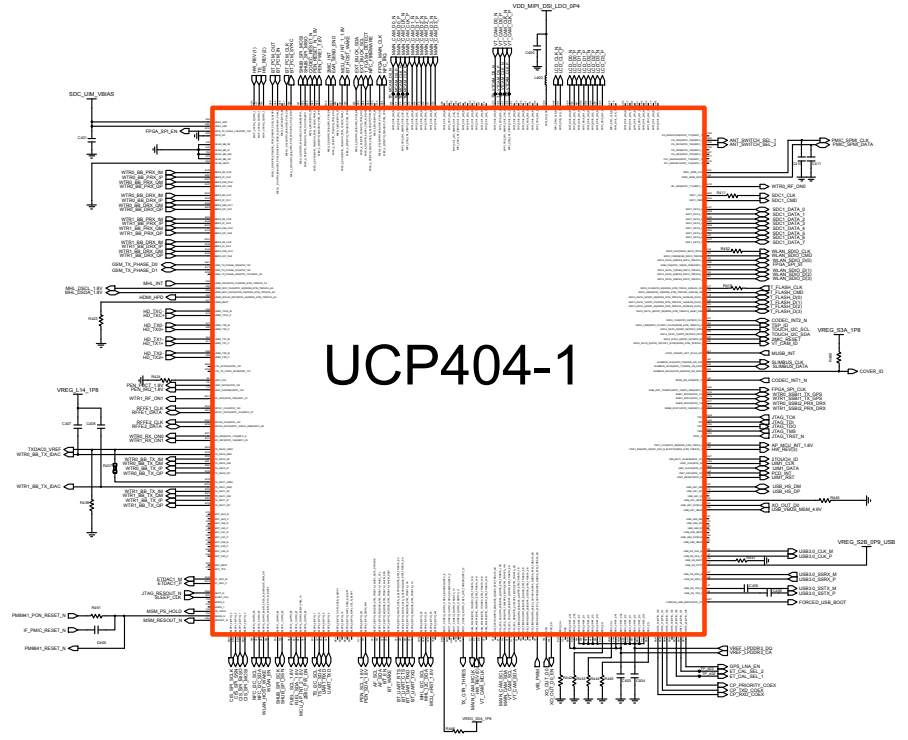

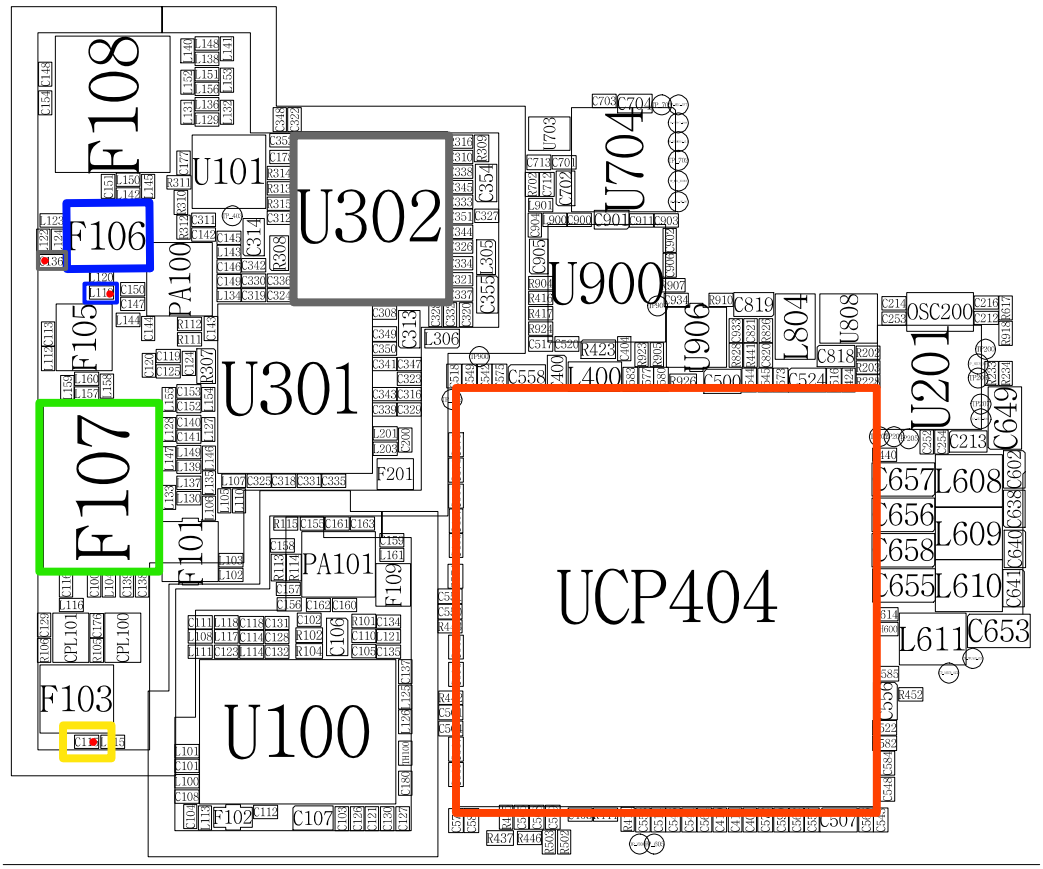

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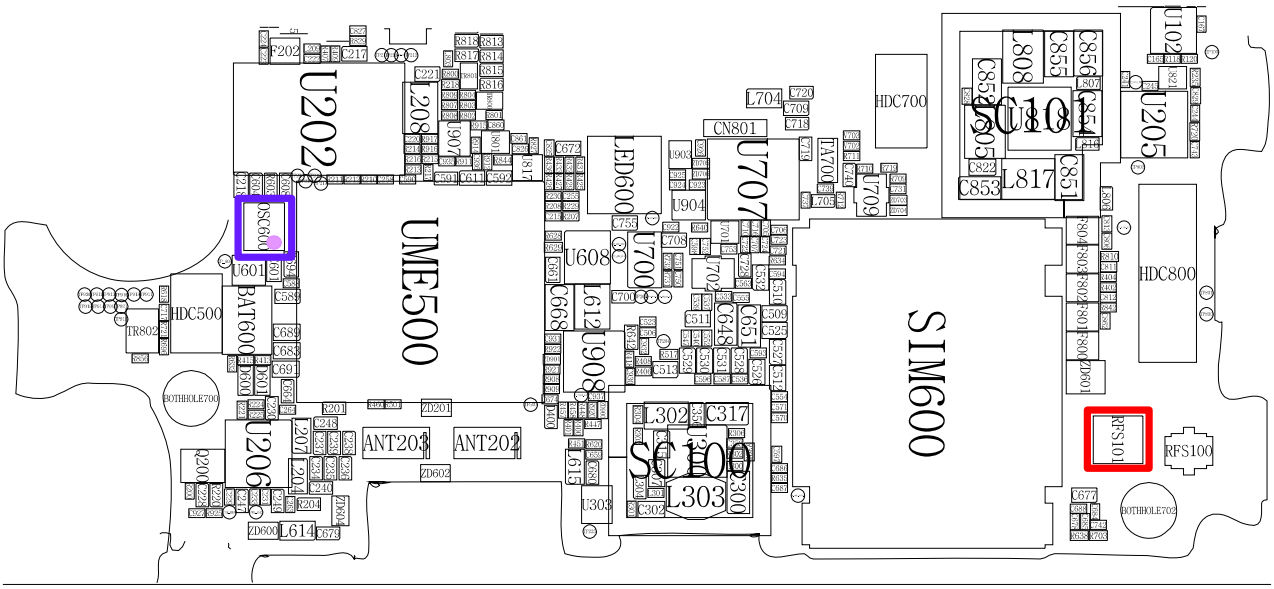

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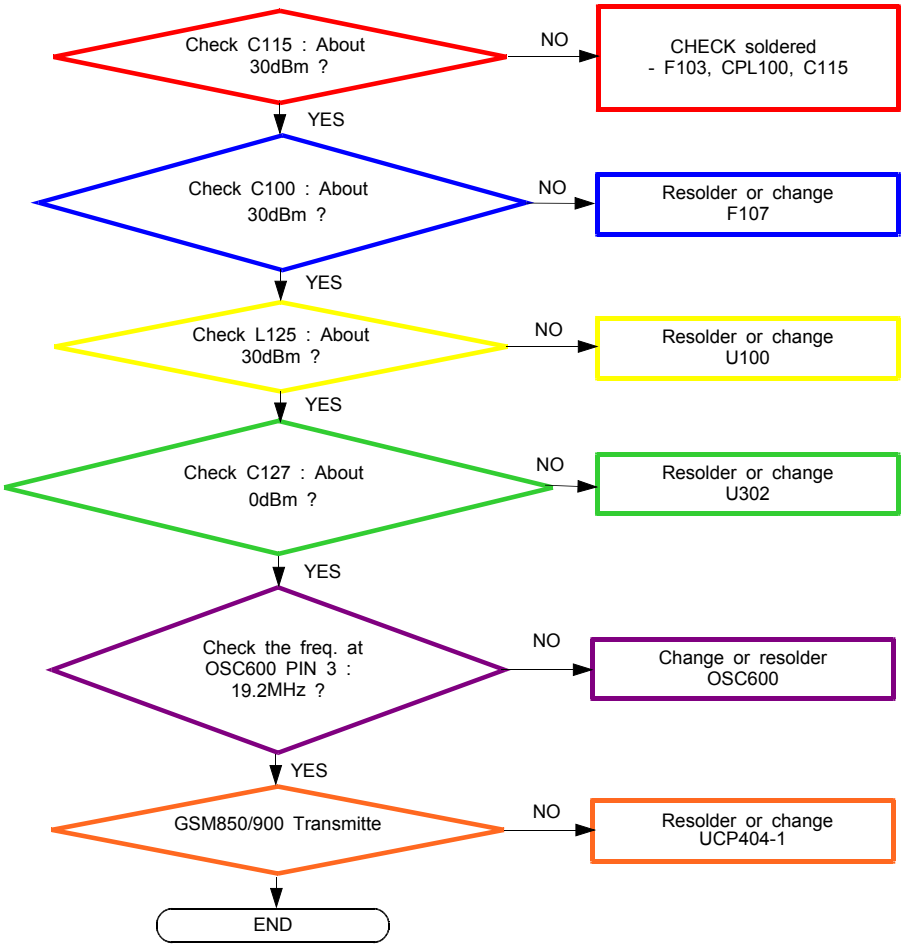
8-3-32. GSM850/GSM900 TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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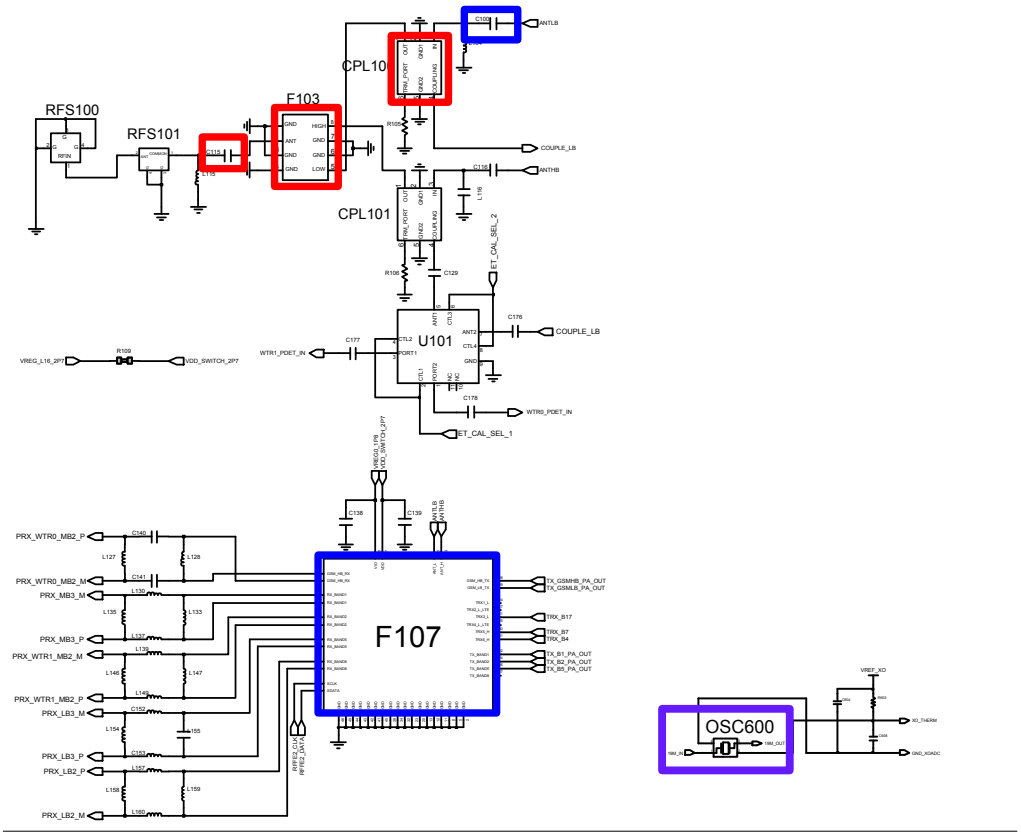

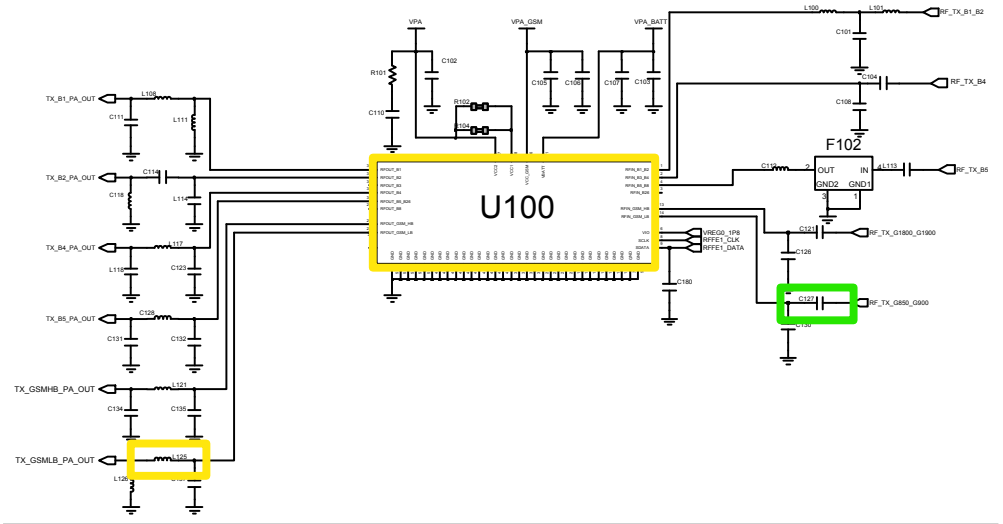

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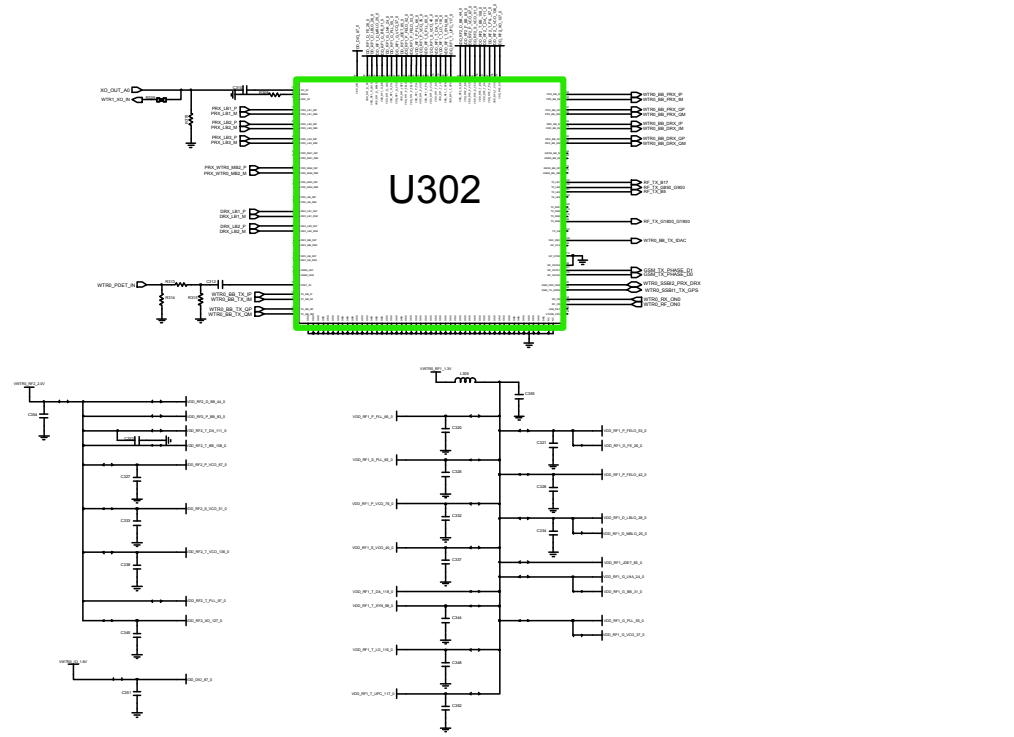

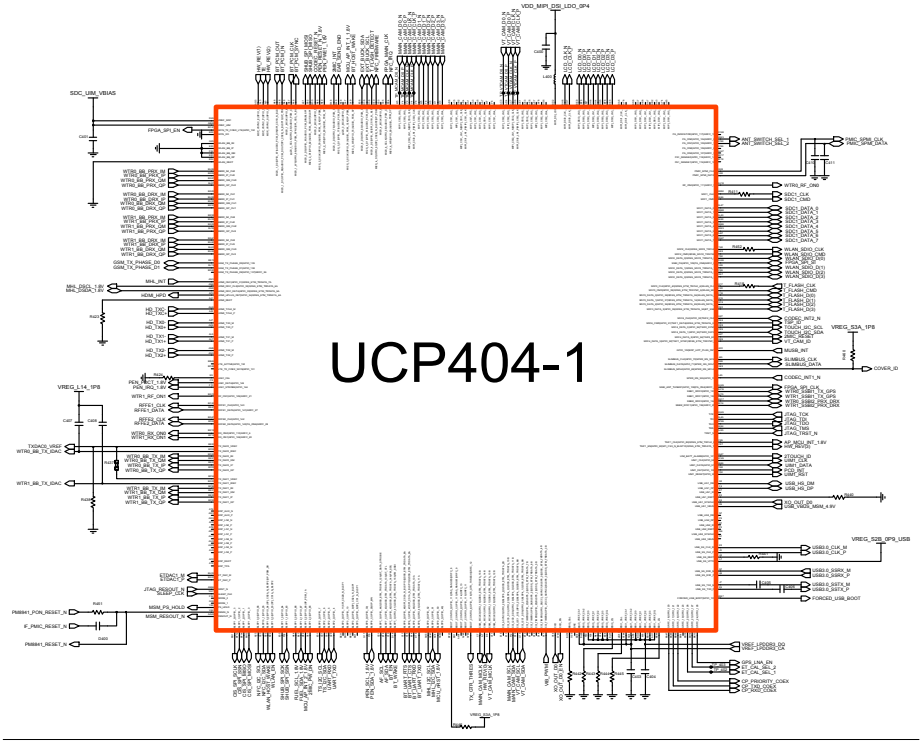

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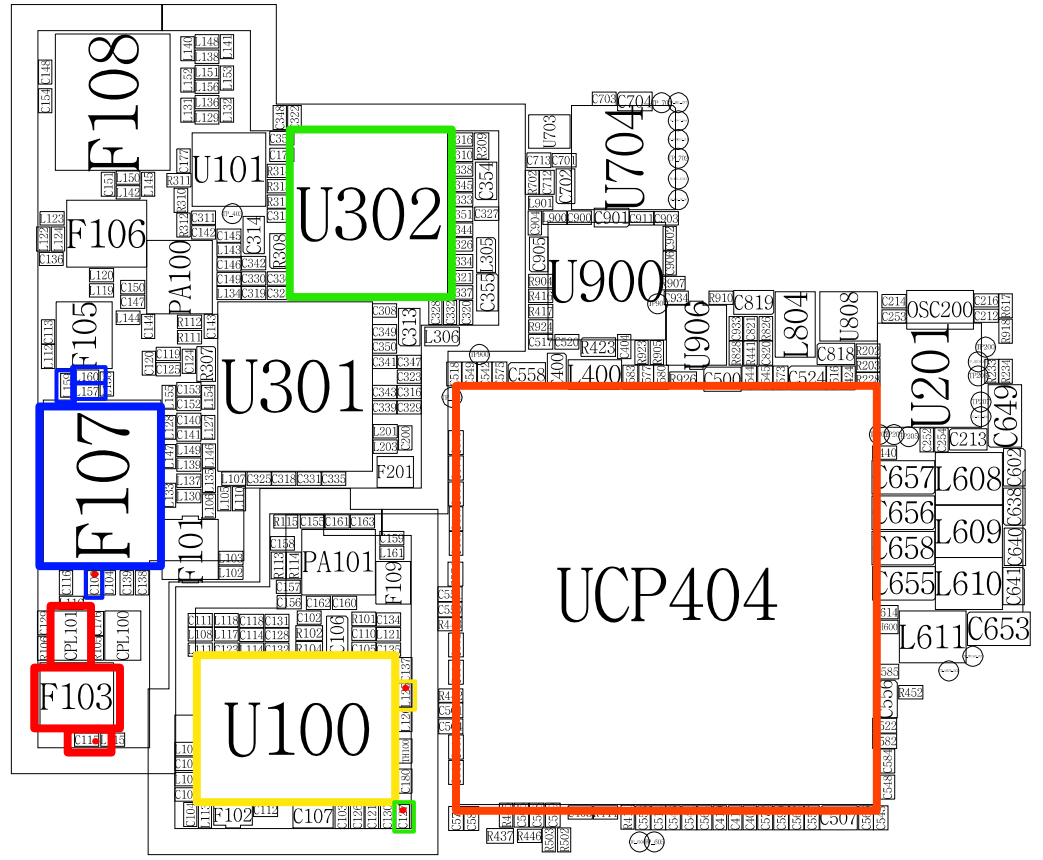

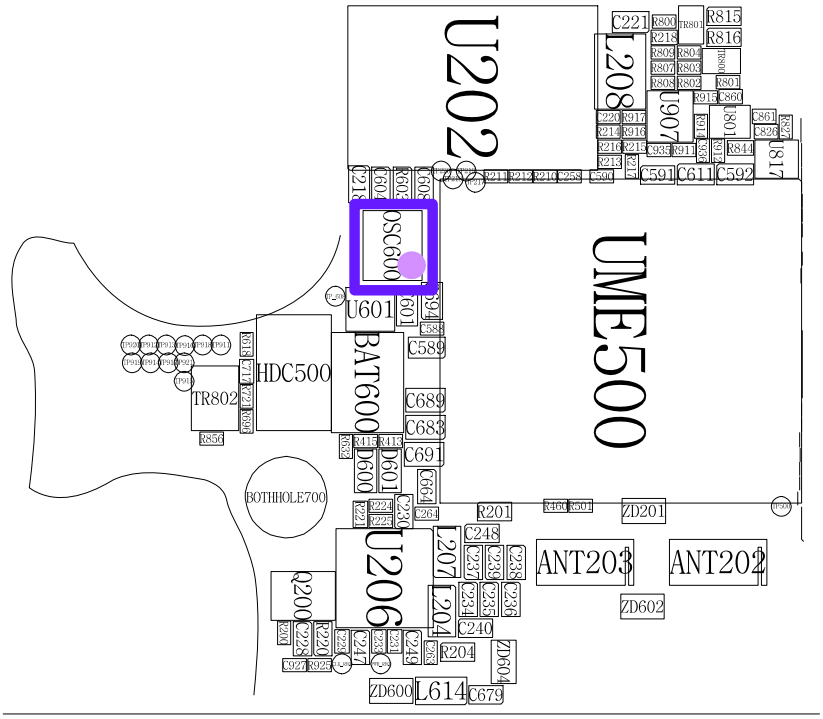

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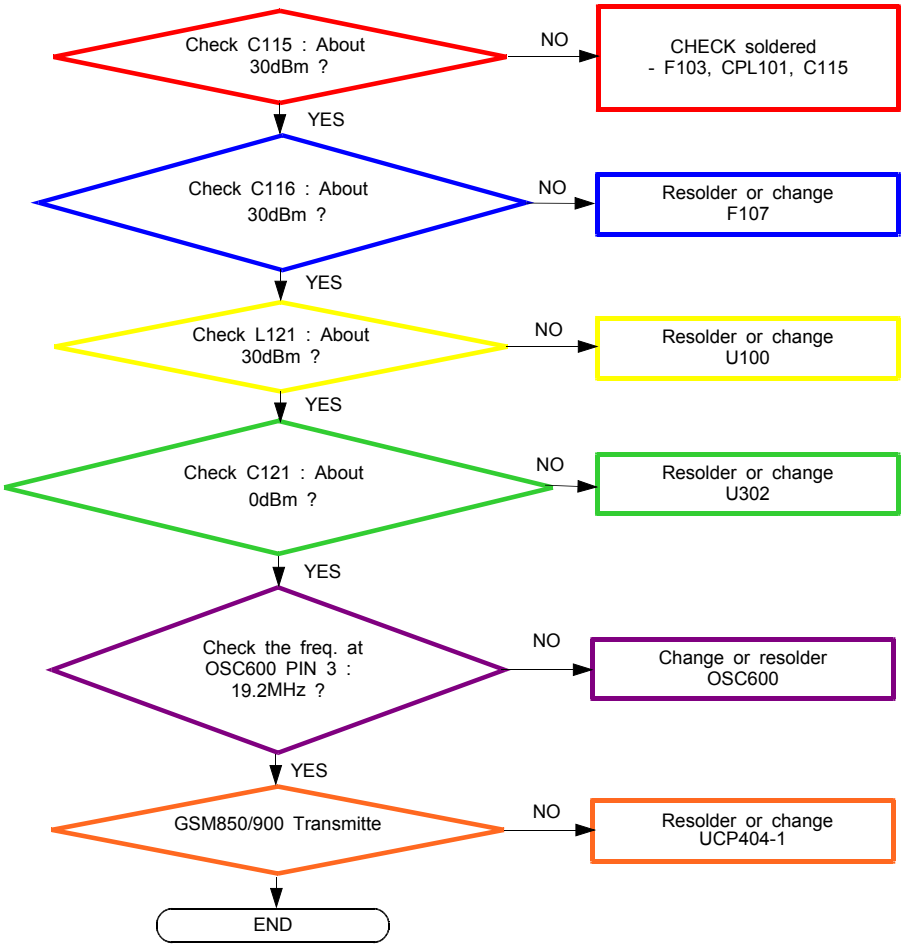
8-3-33. GSM1800/1900 TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
DCS CH : 698
PCS CH : 661
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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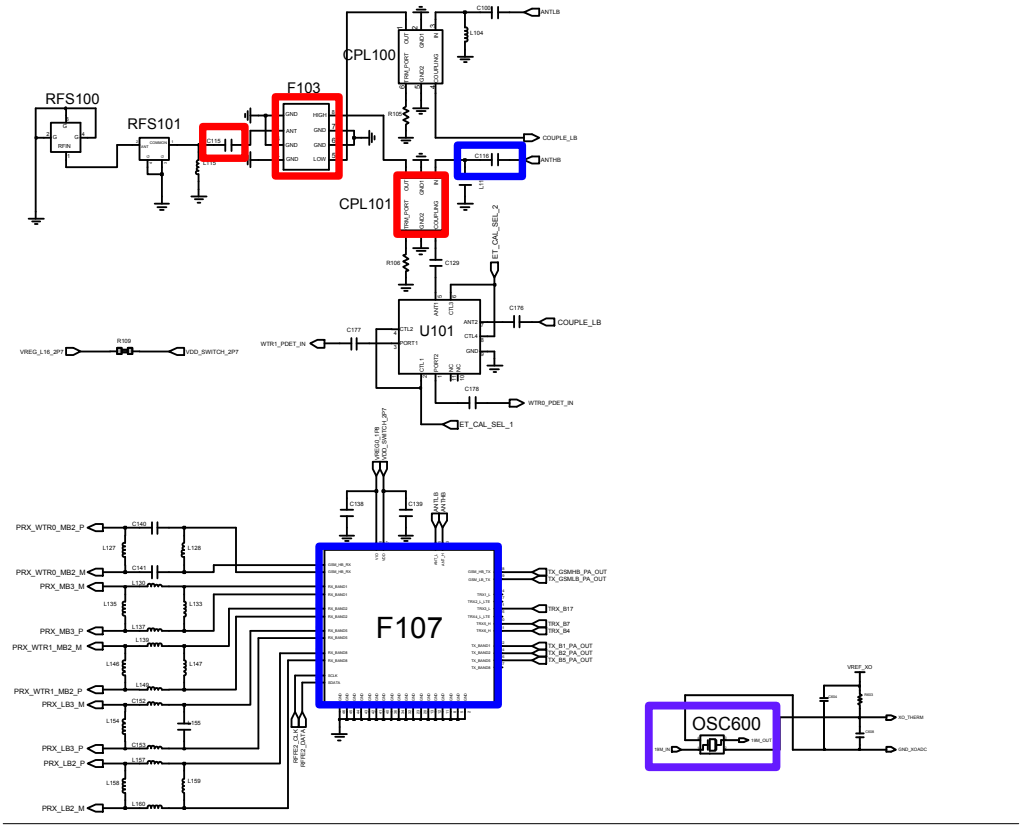

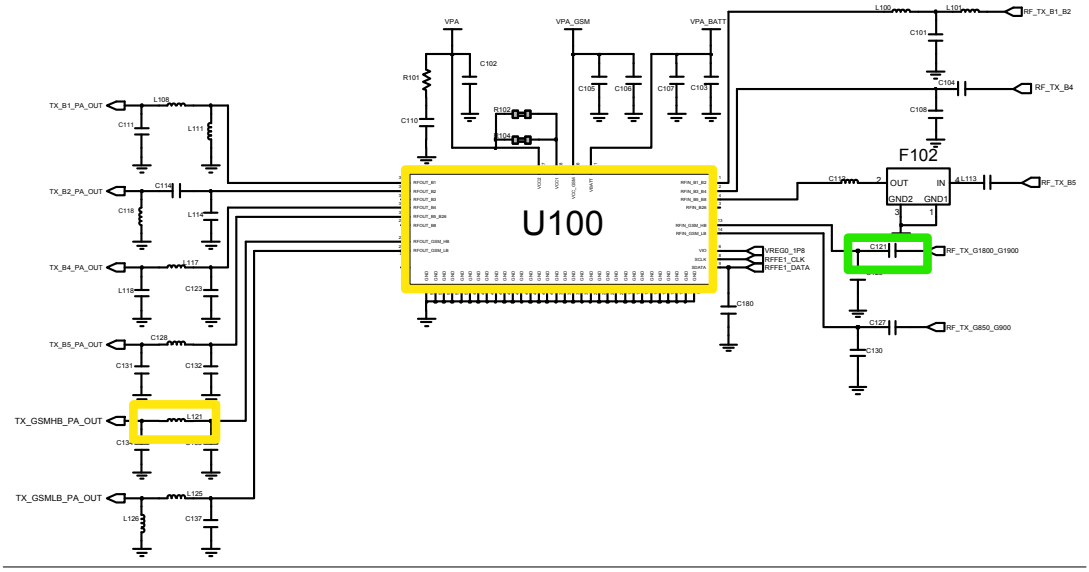

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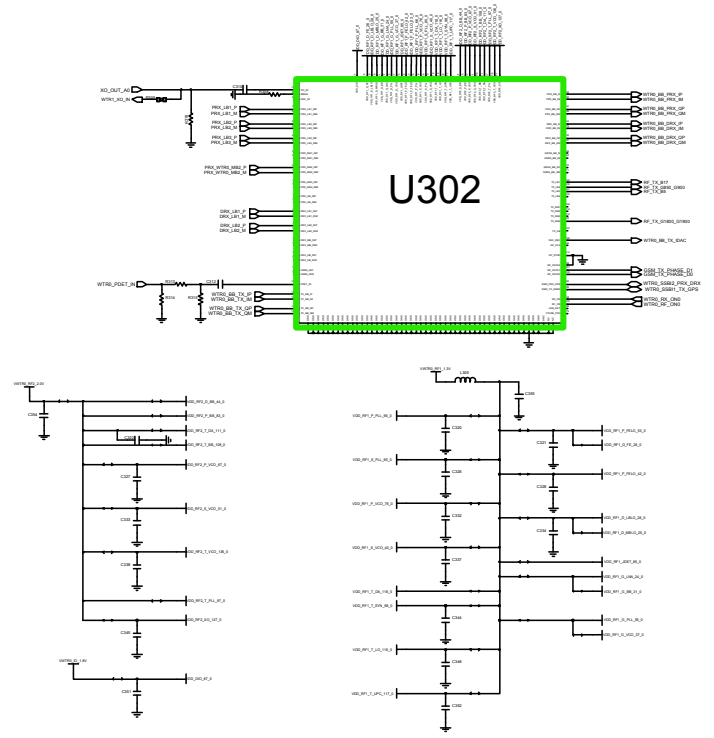

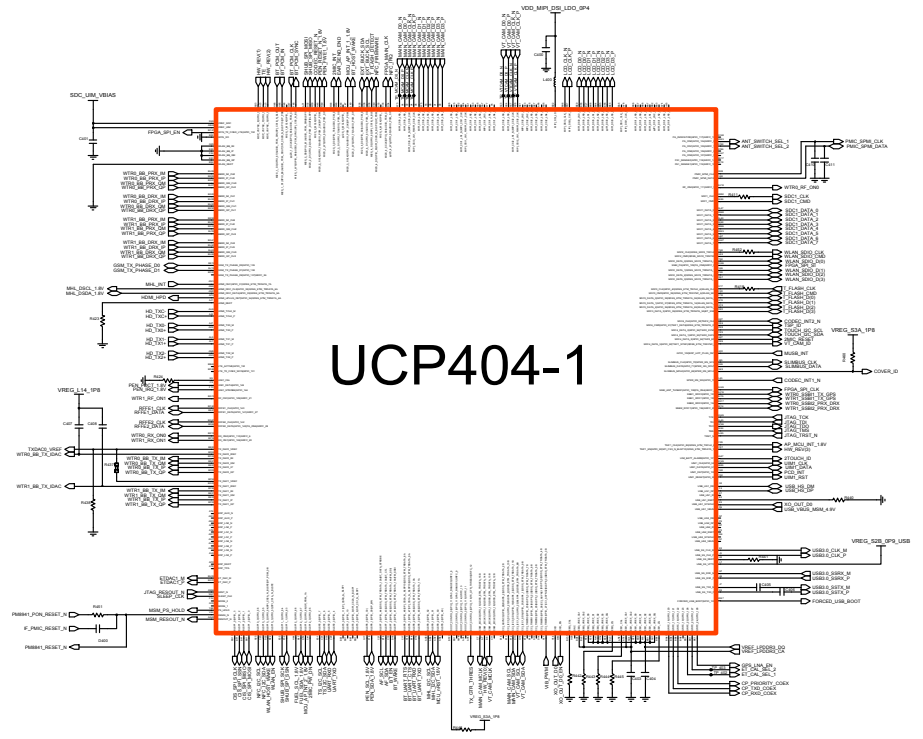

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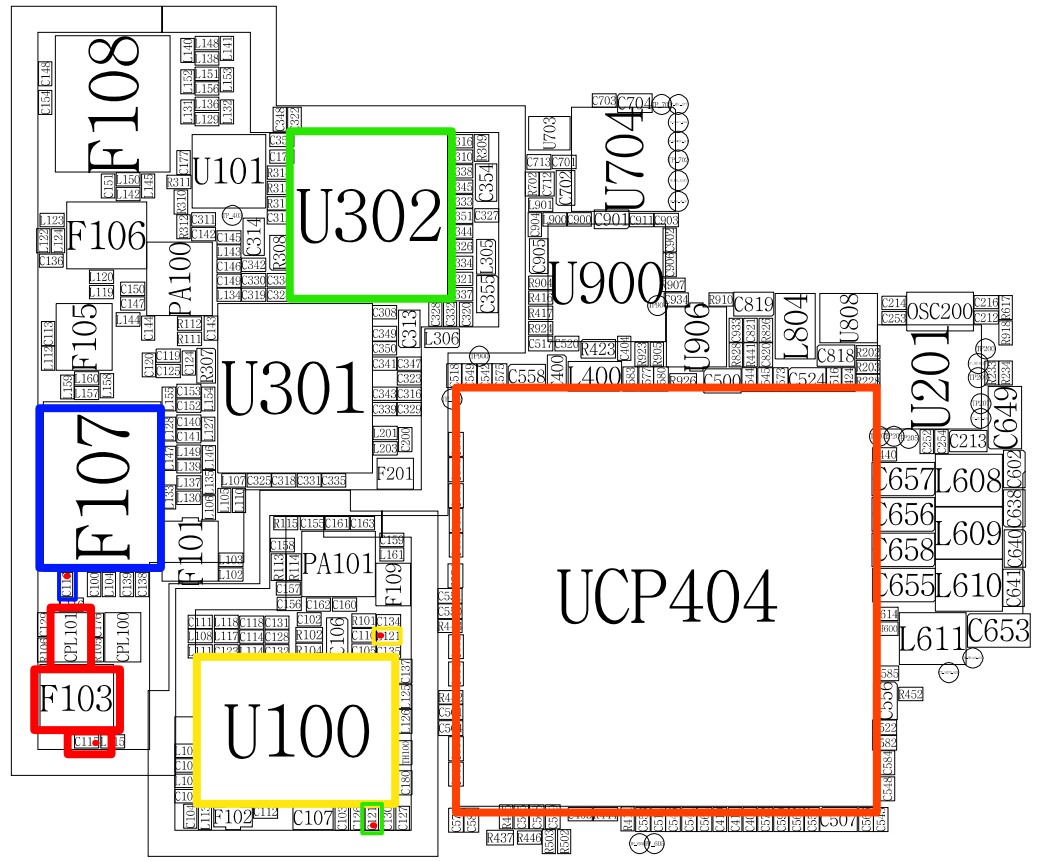

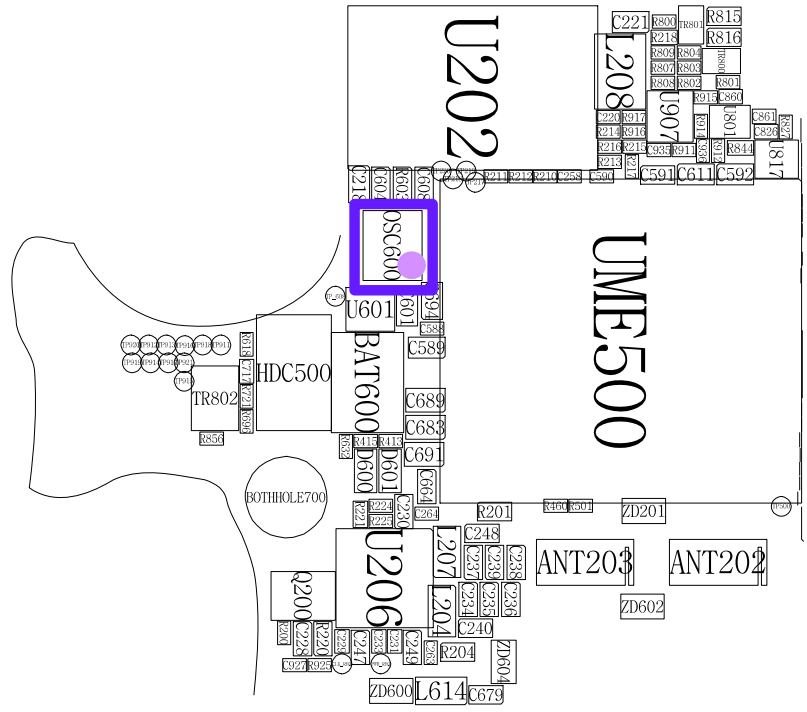

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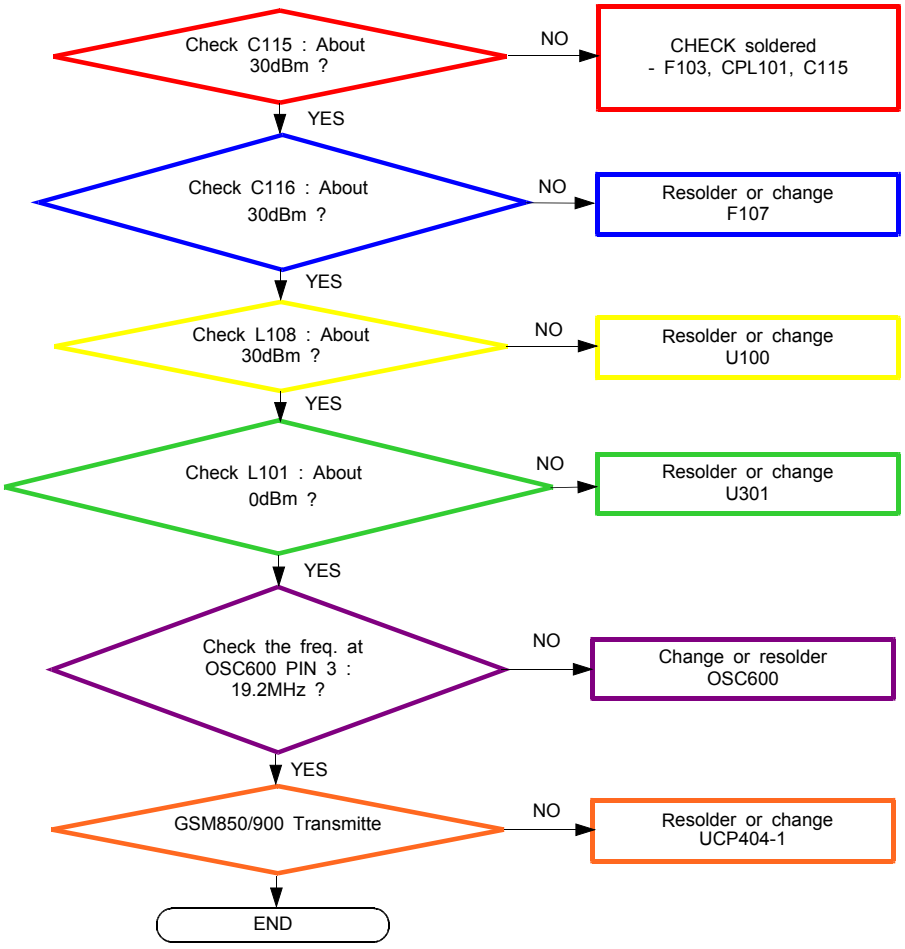
8-3-34. WCDMA2100 TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
WCDMA2100 CH : 9750
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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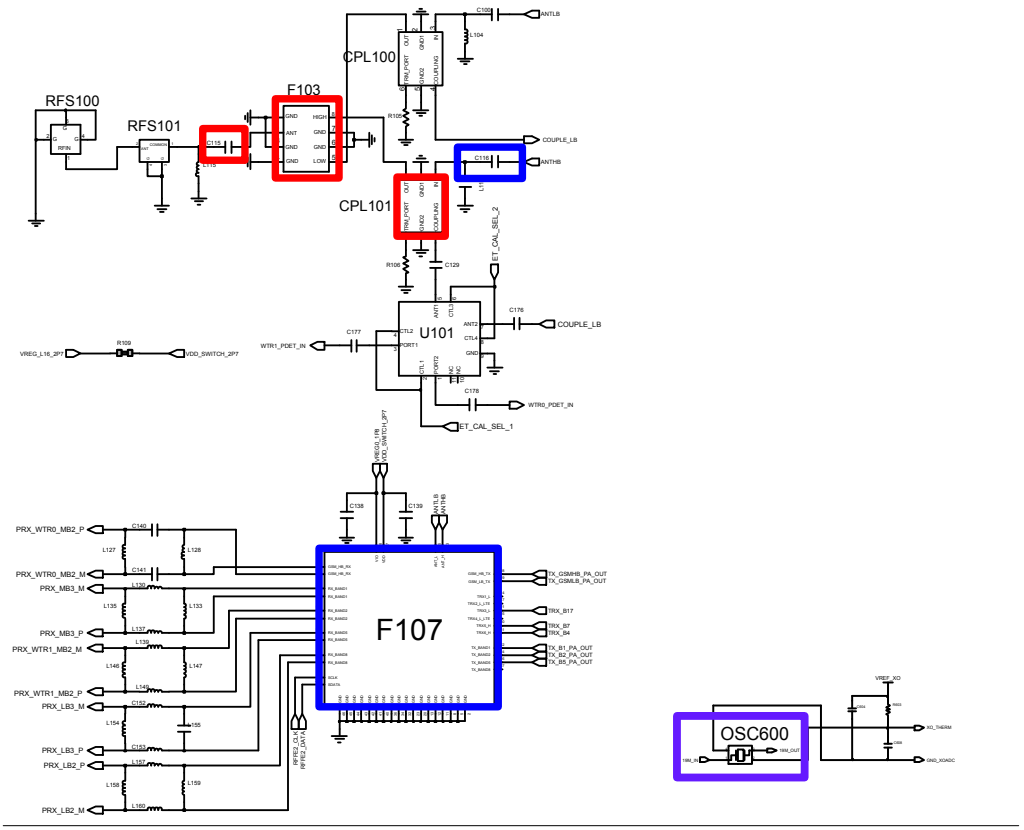

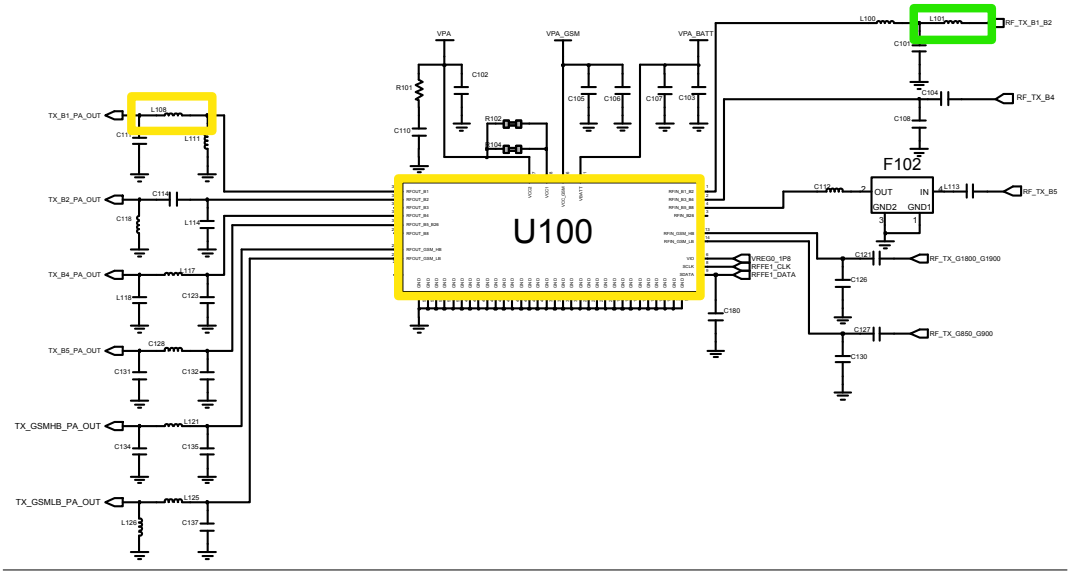

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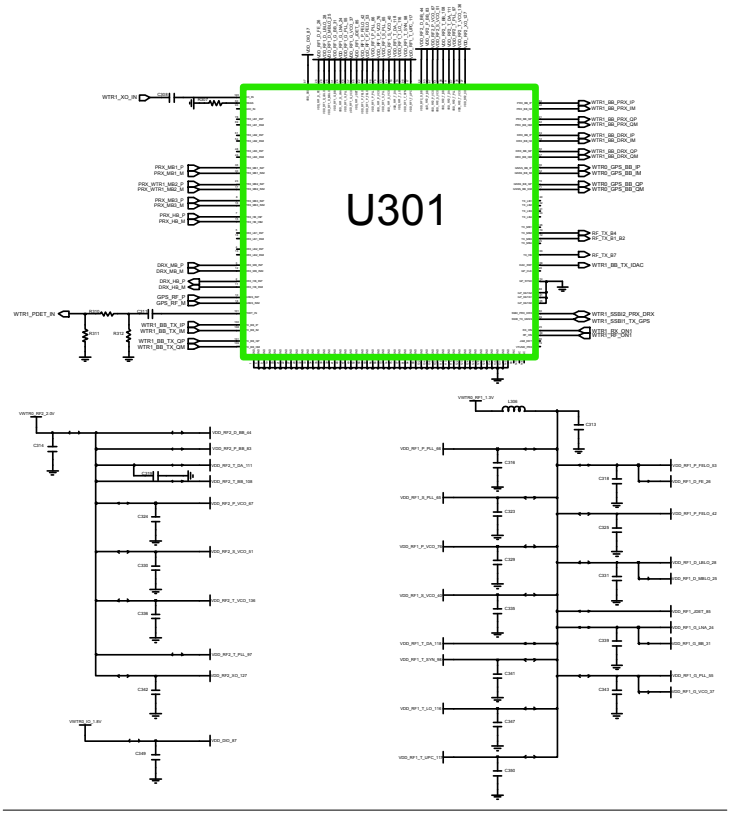

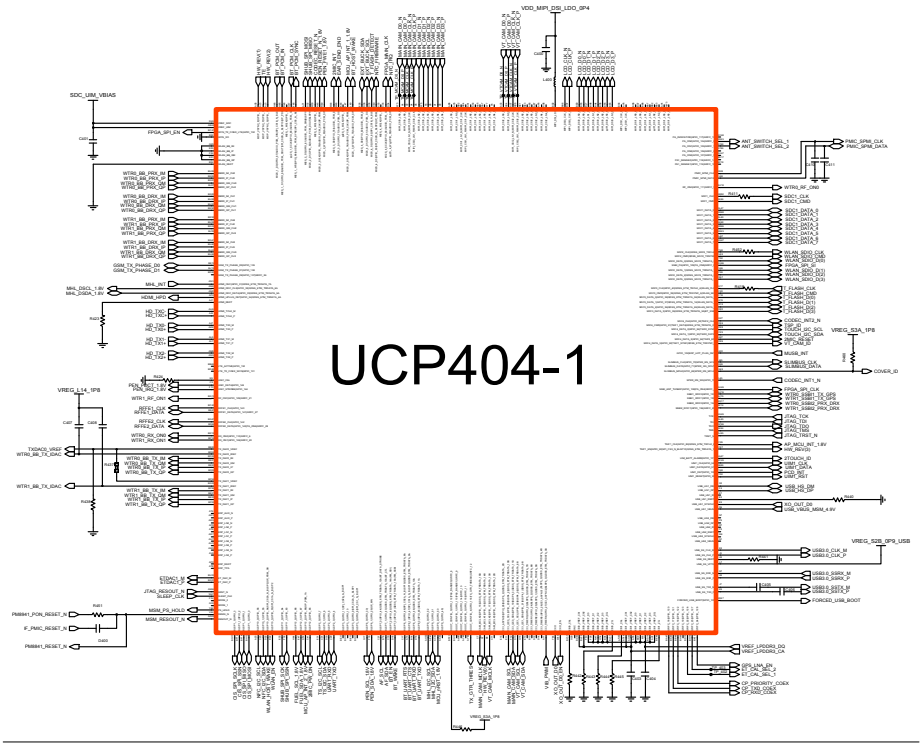

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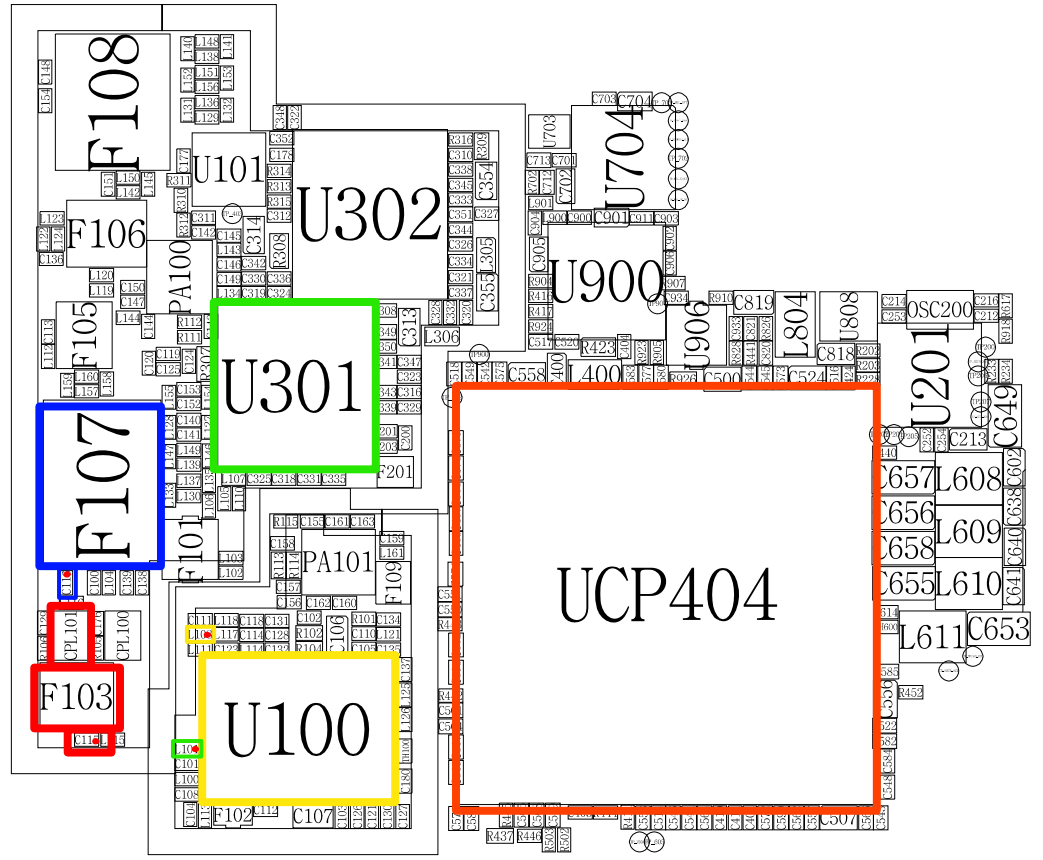

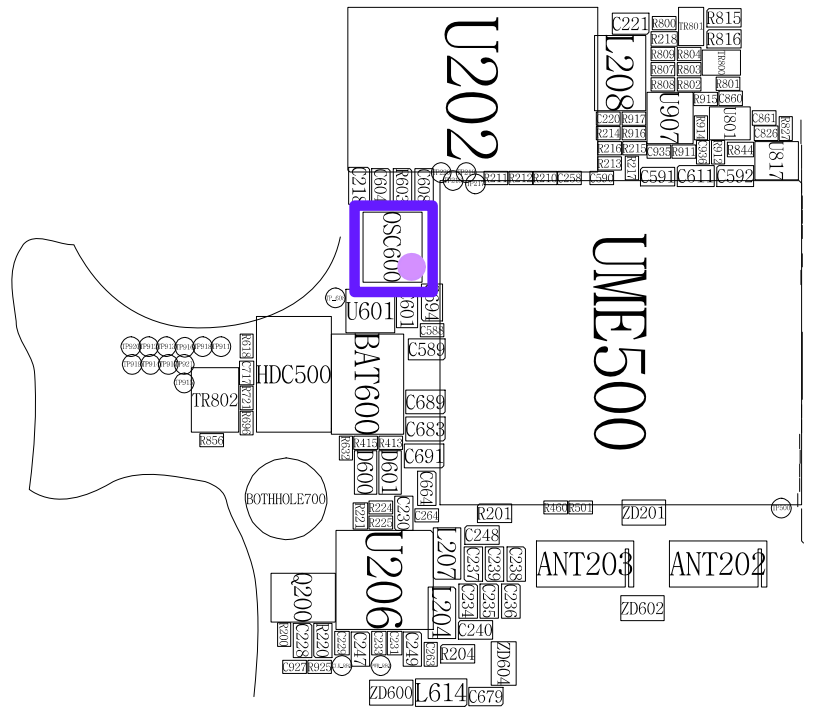

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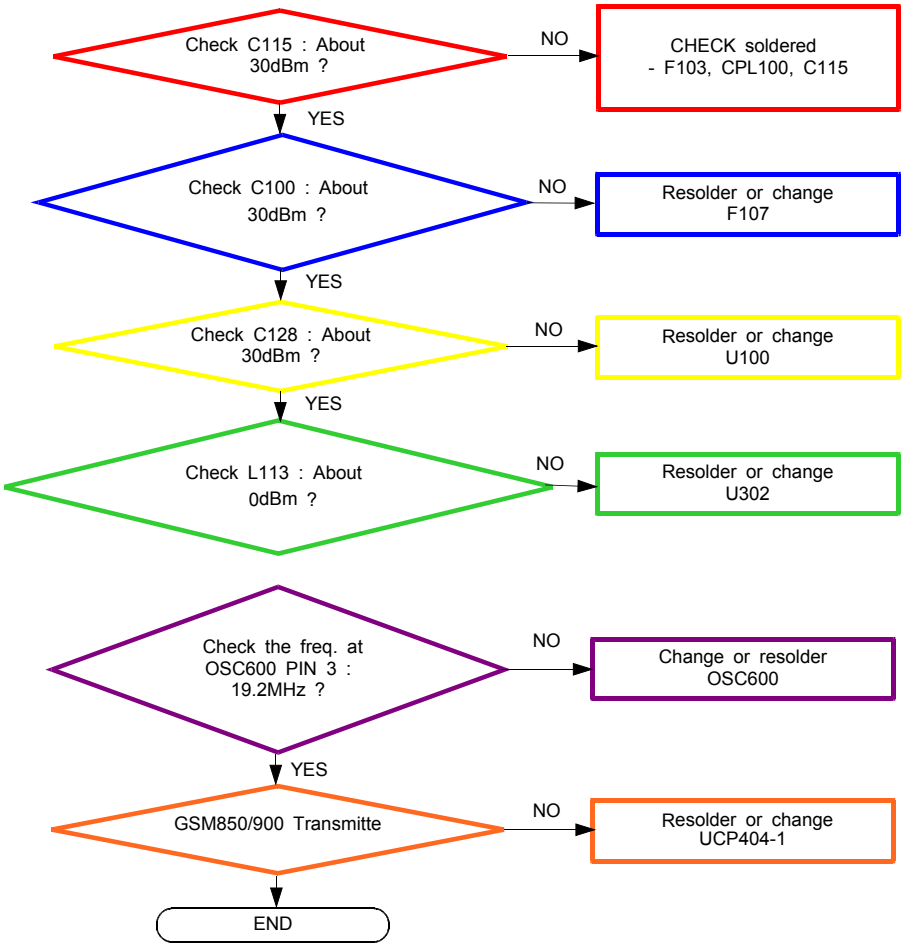
8-3-35. WCDMA850 TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
WCDMA850 CH : 4182
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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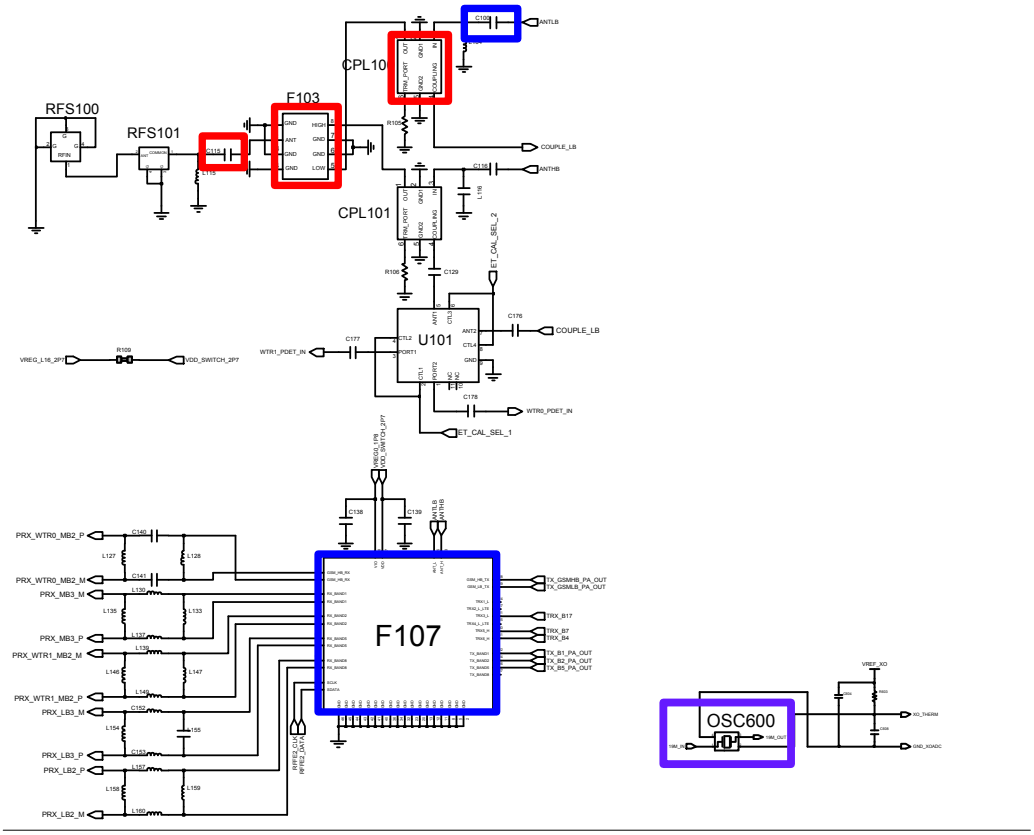

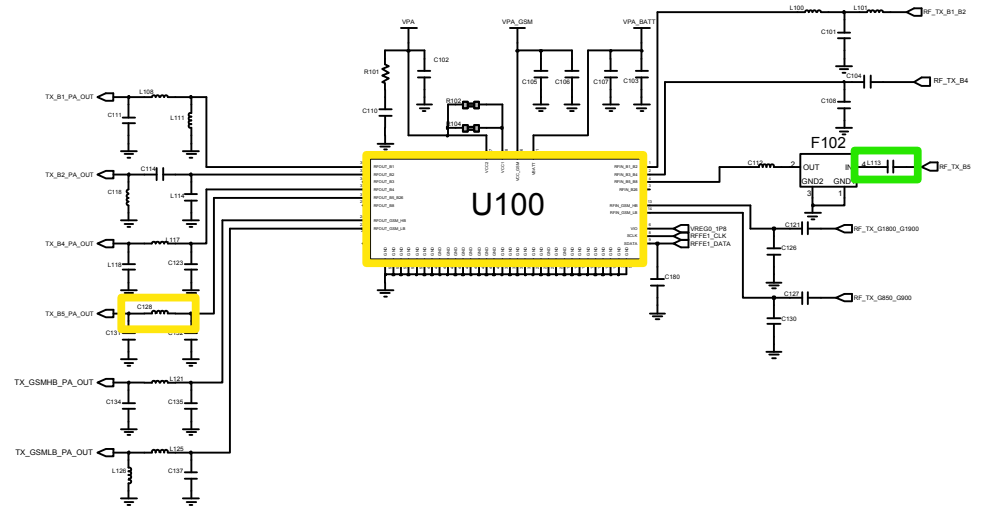

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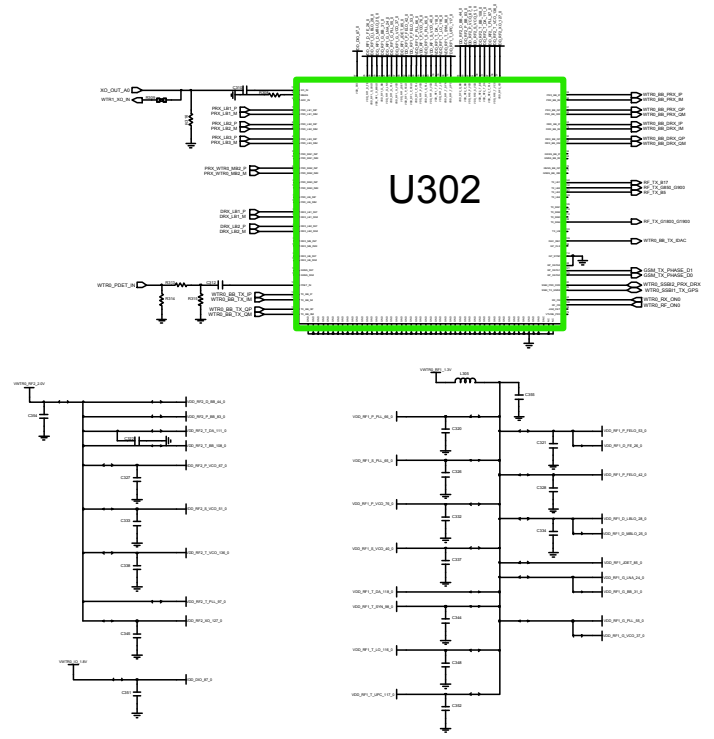

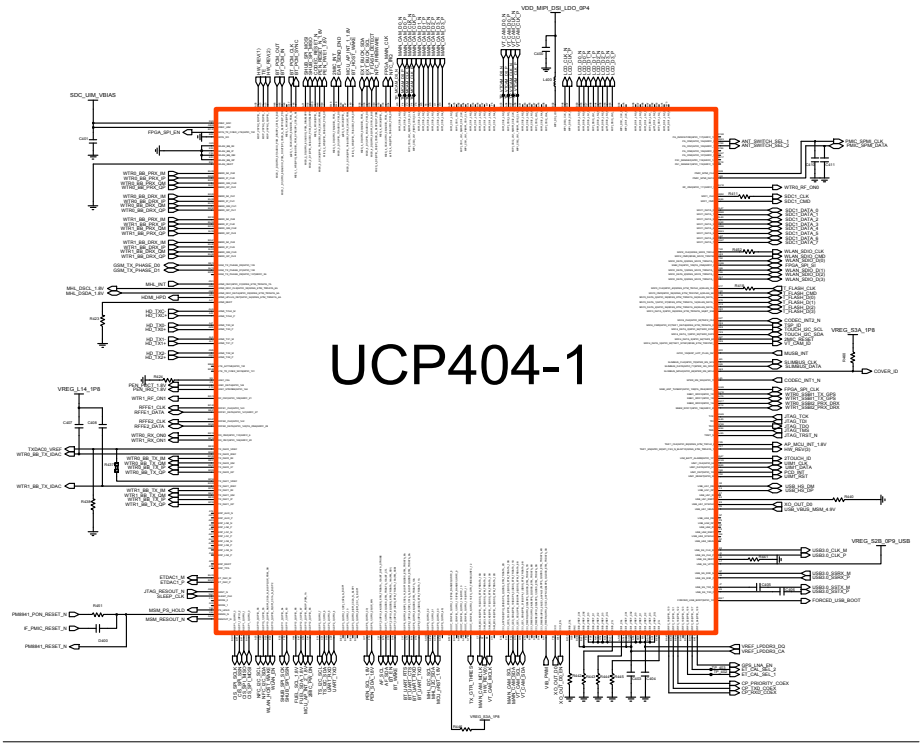

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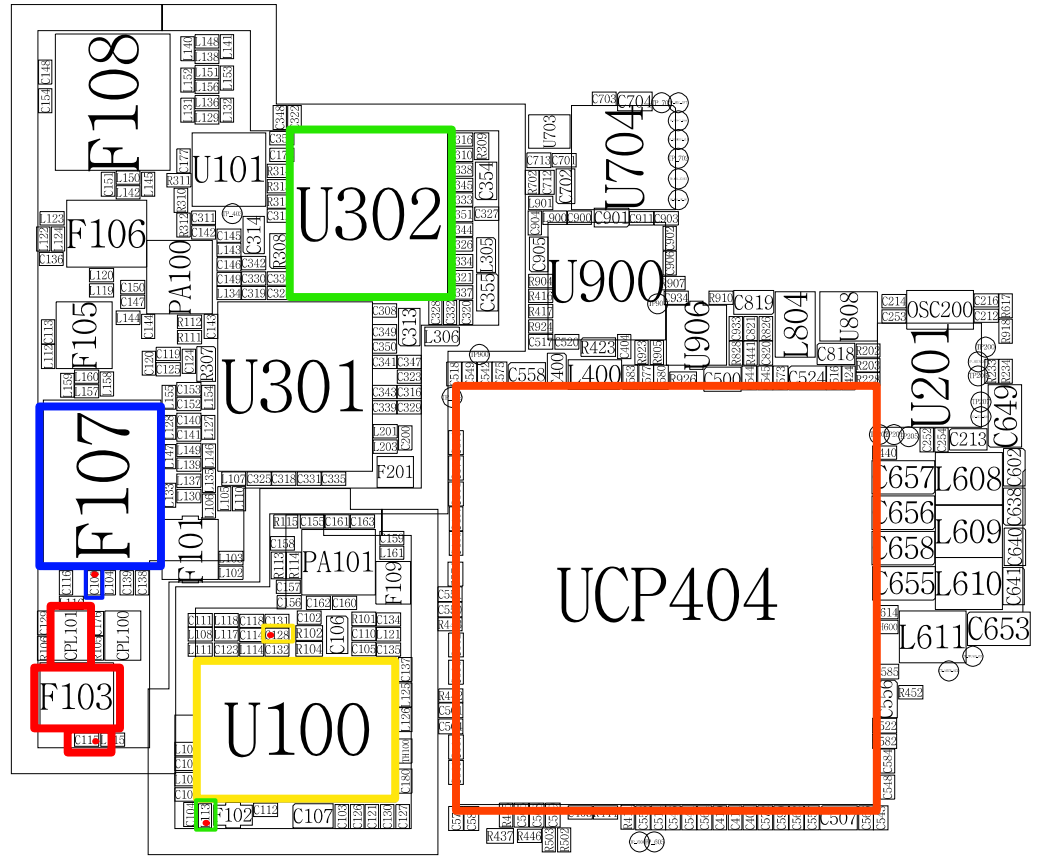

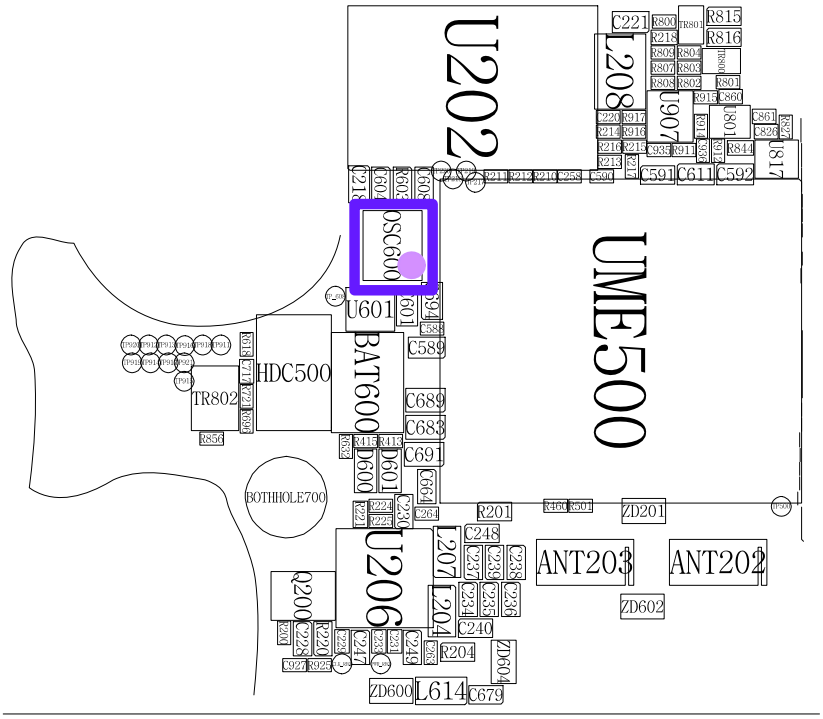

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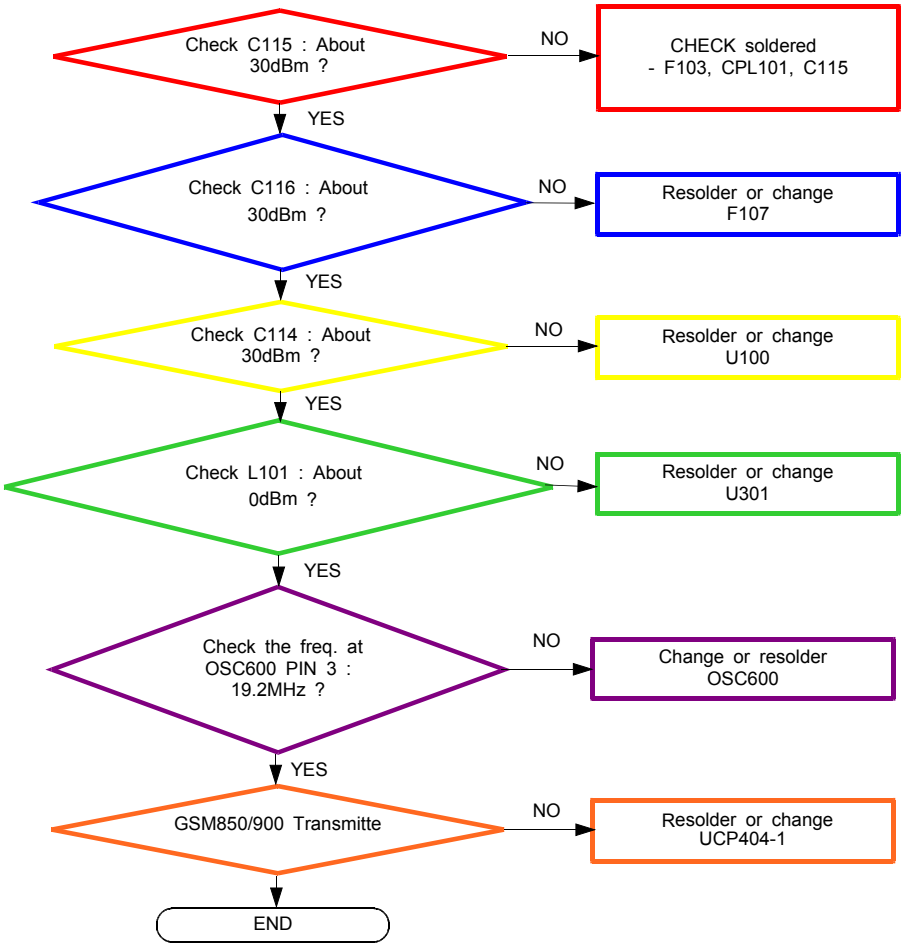
8-3-36. WCDMA1900 TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
WCDMA1900 CH : 9400
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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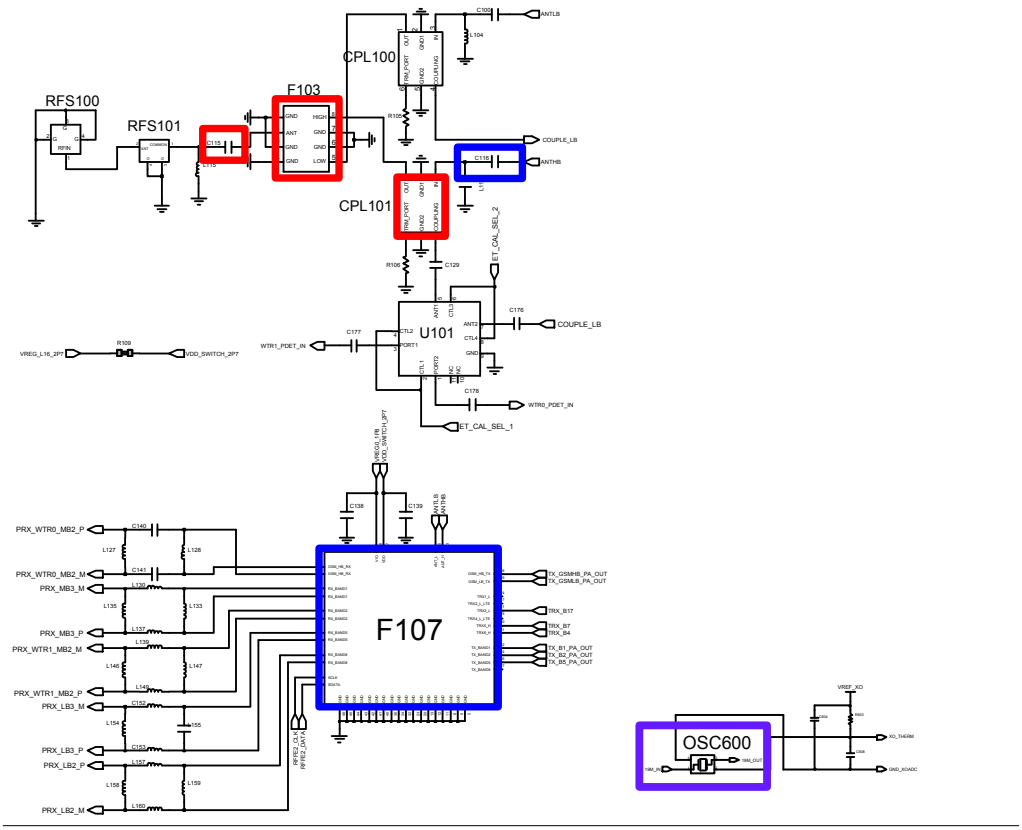

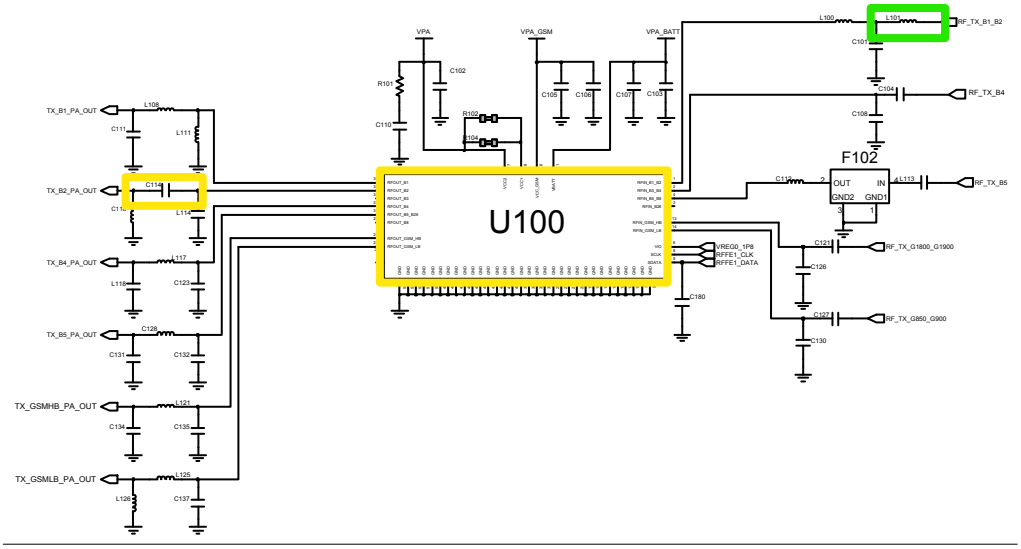

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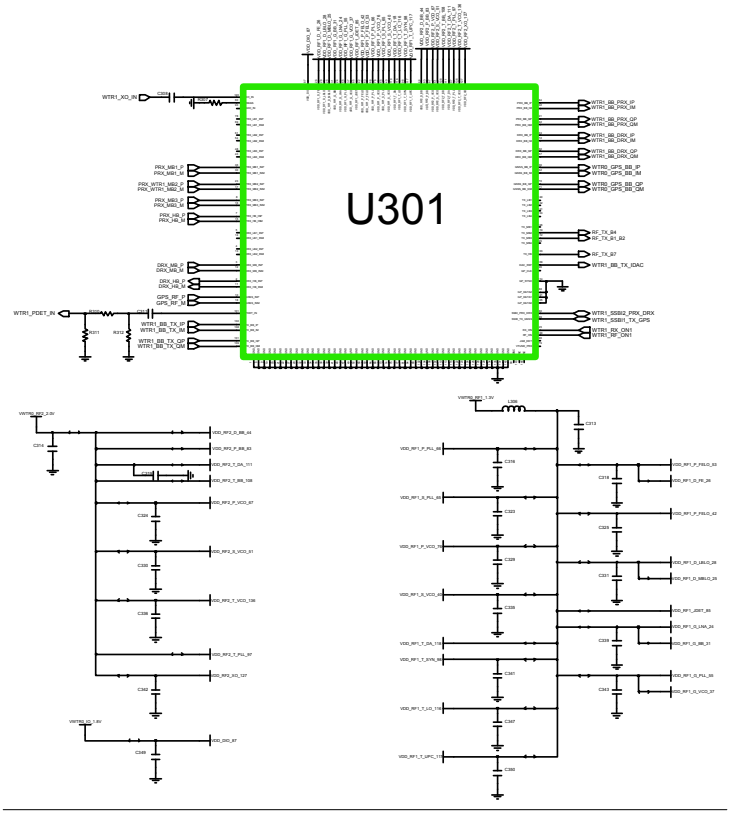

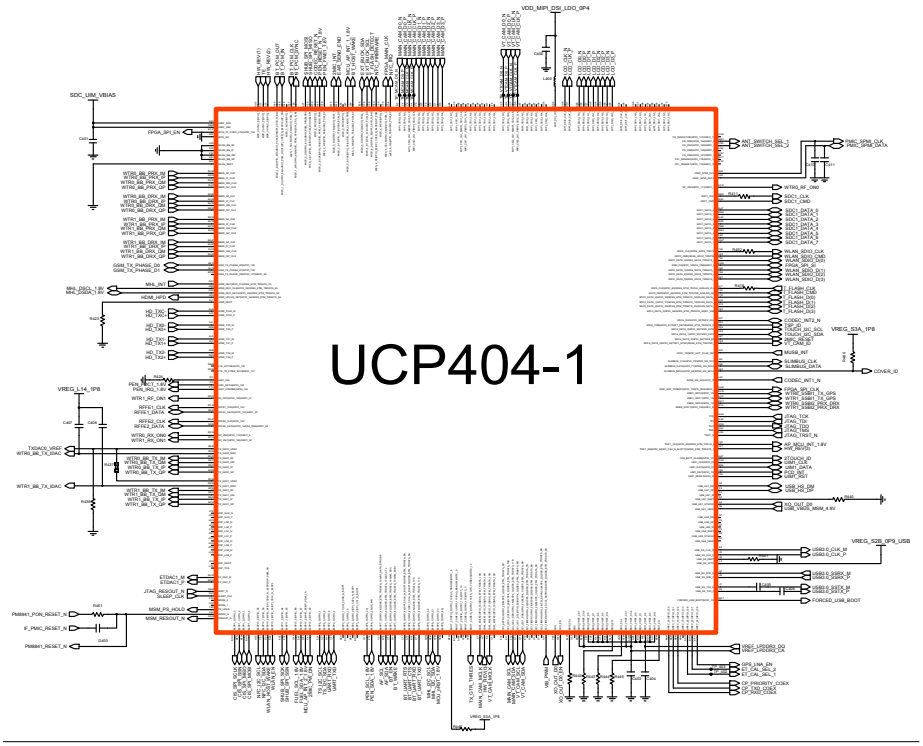

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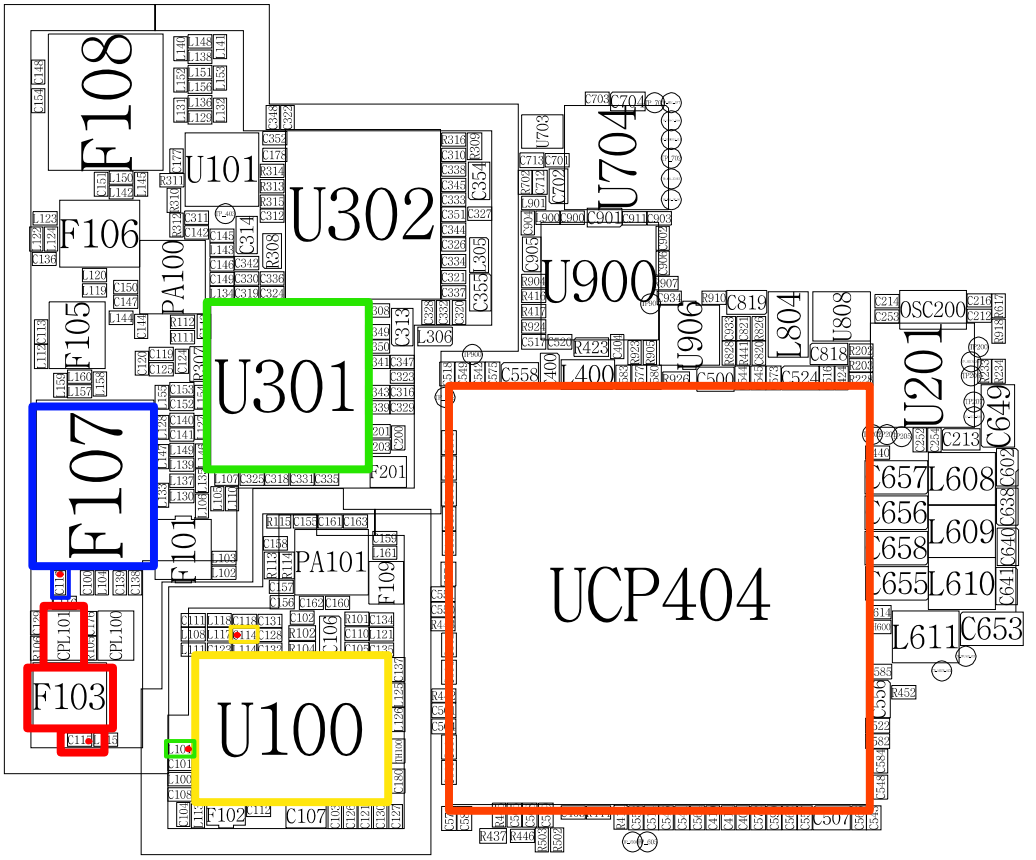

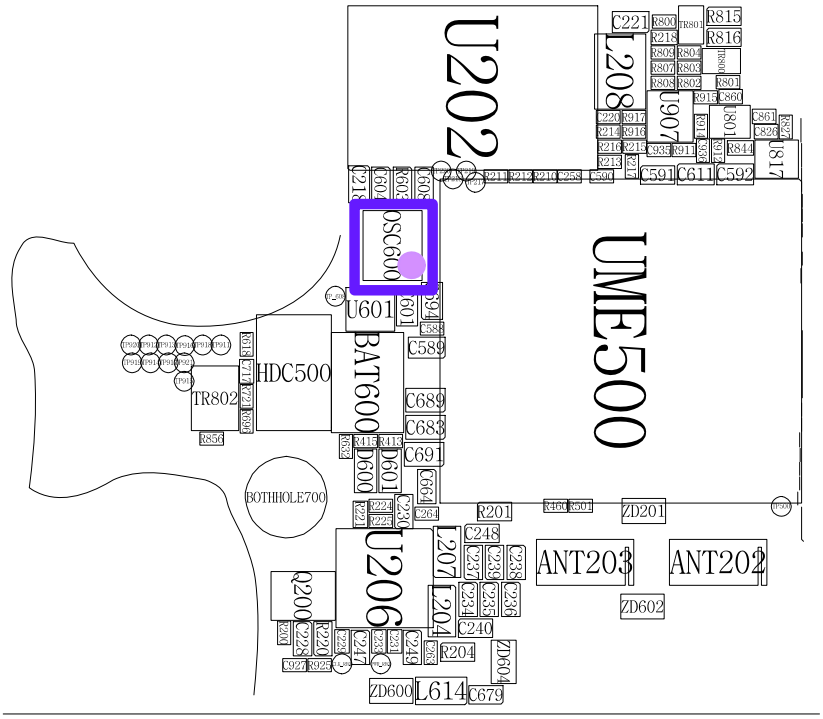

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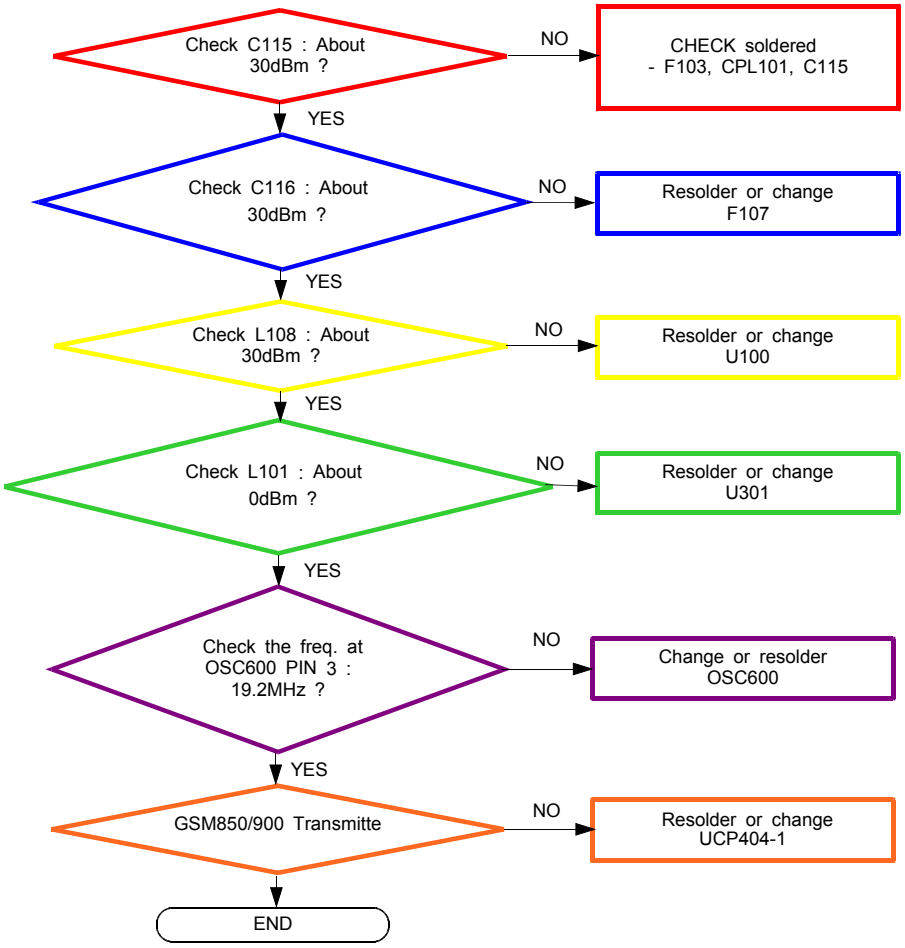
8-3-37. LTE Band1 TX



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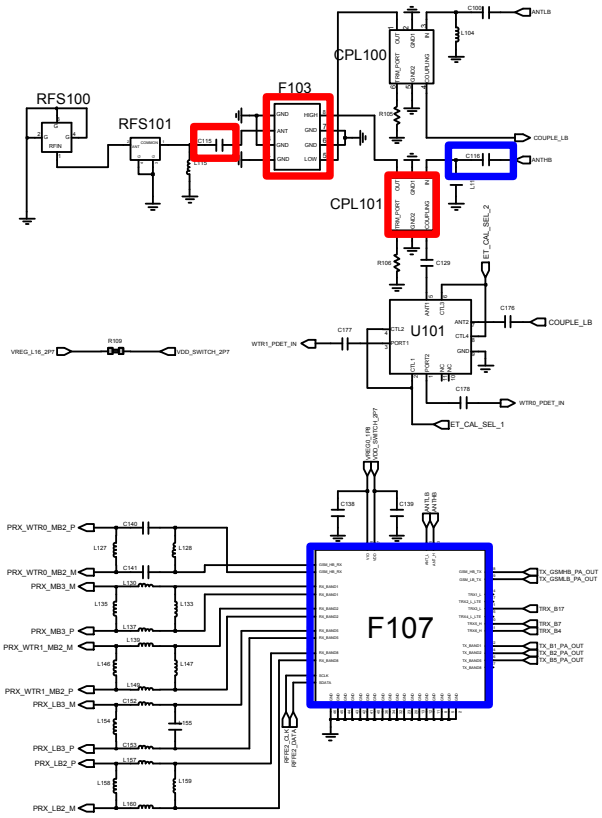

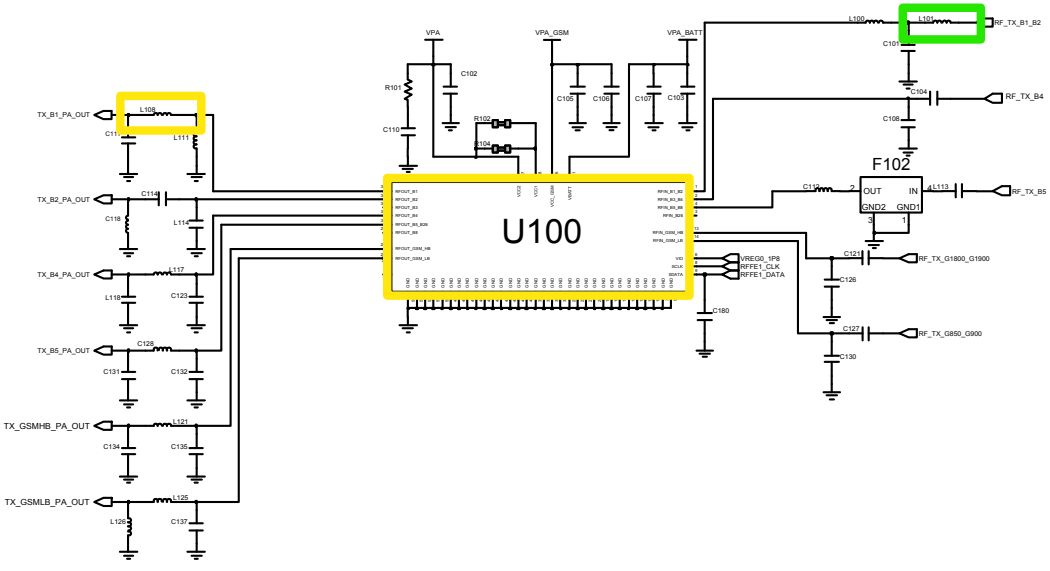

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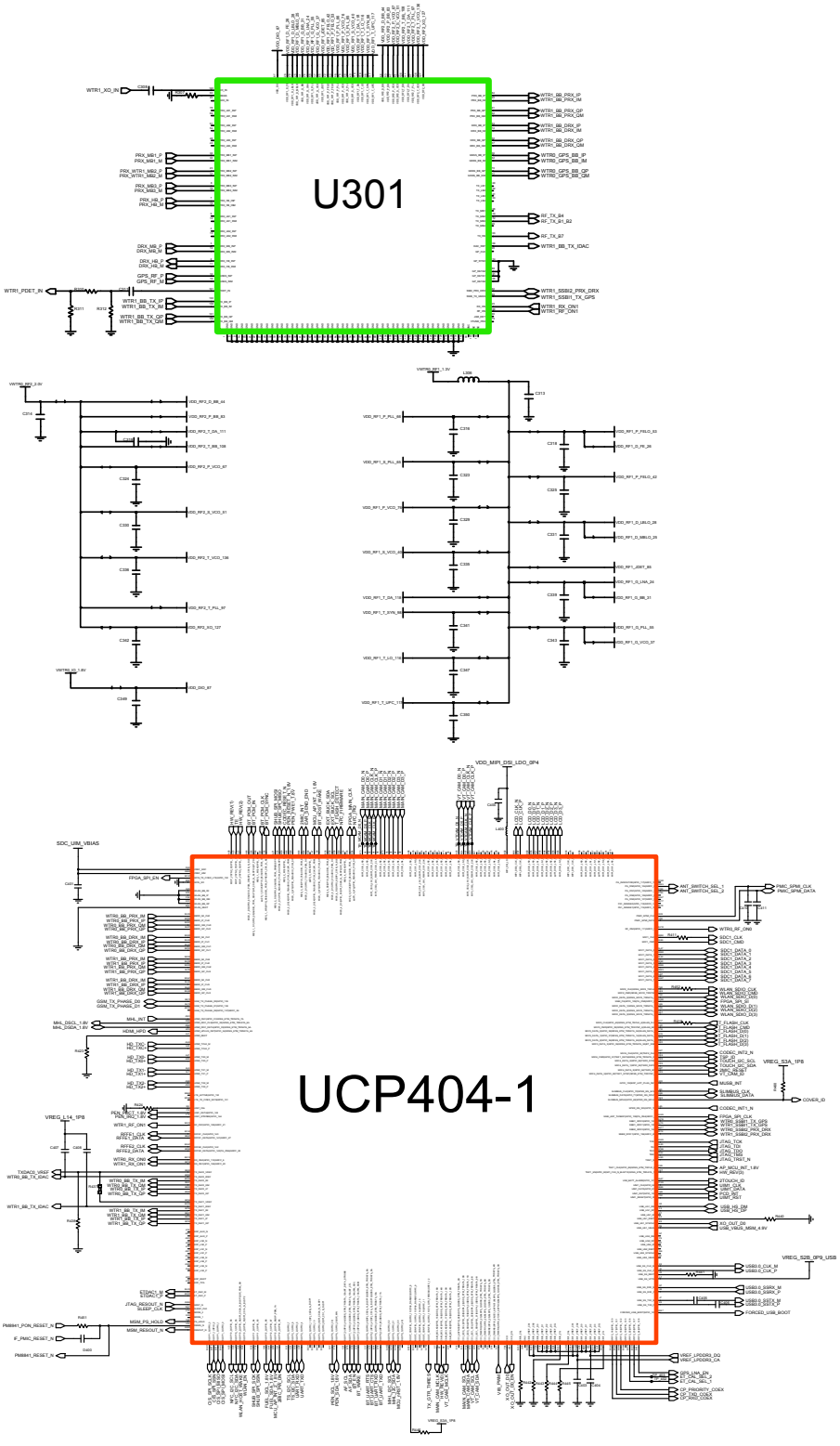

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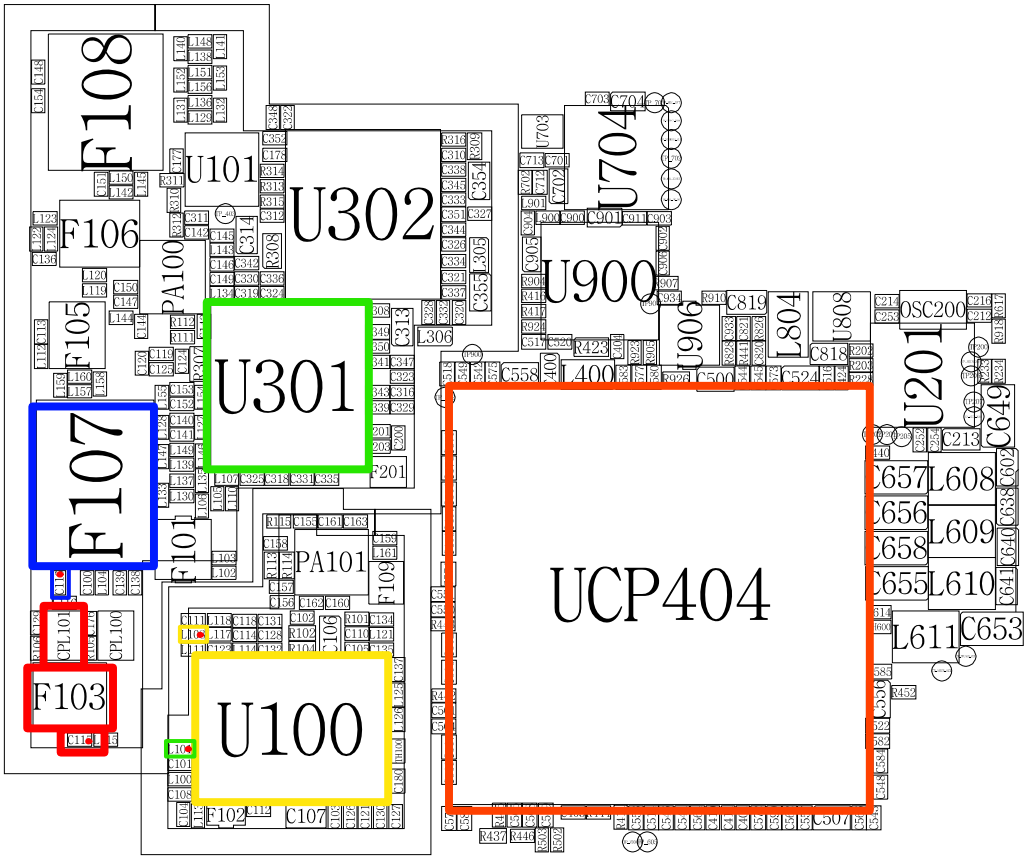

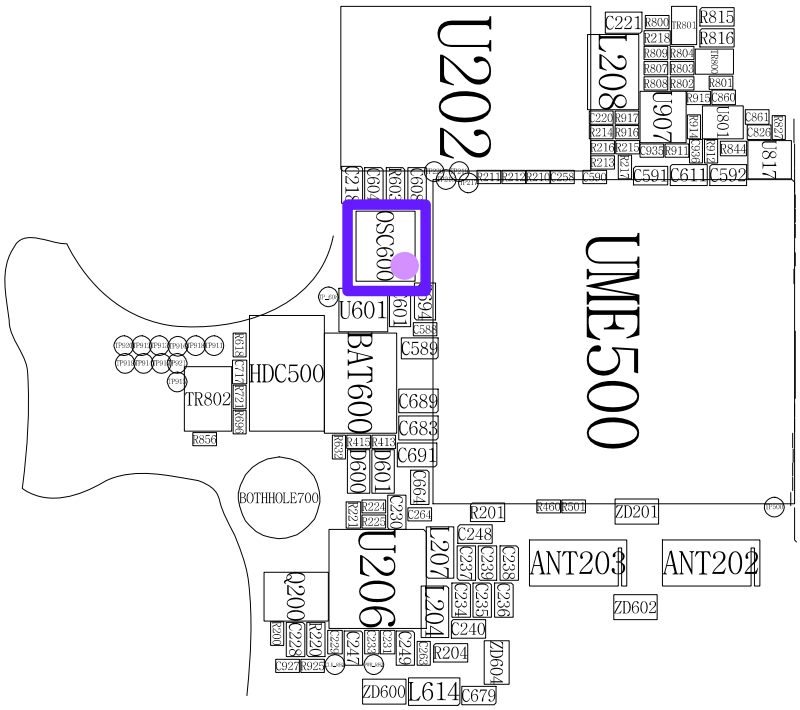

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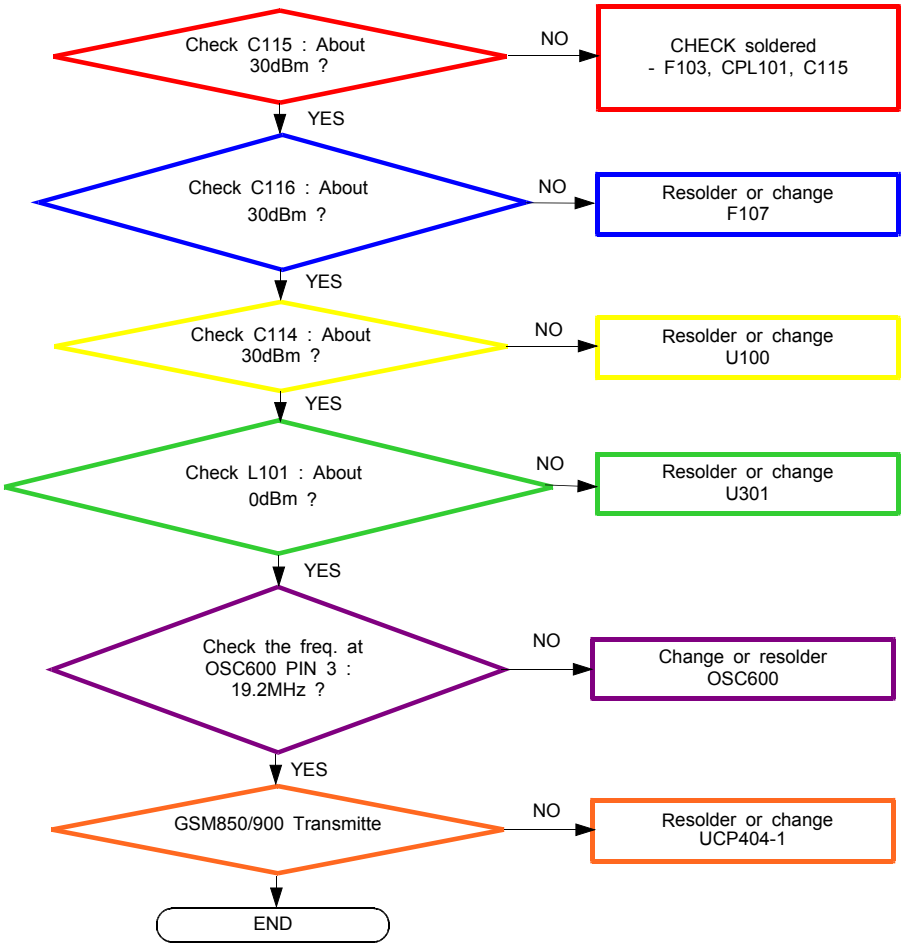
8-3-38. LTE Band2 TX



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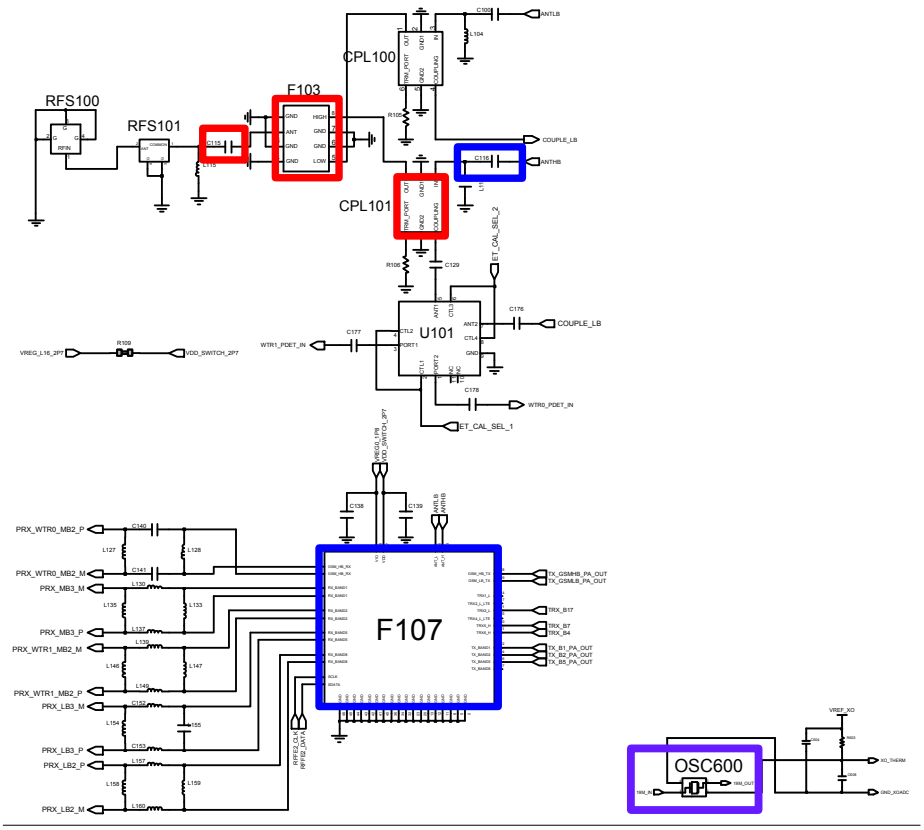

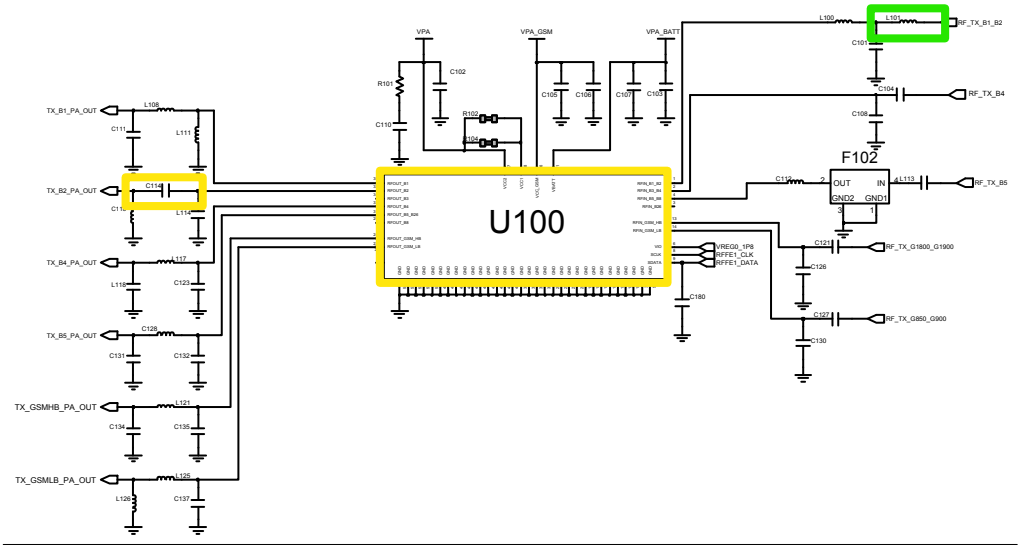

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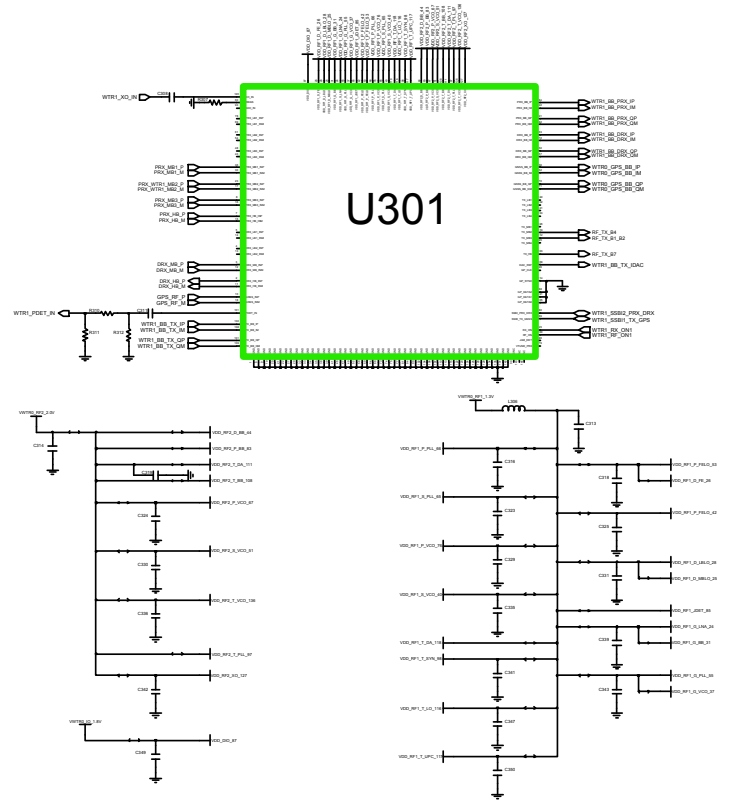

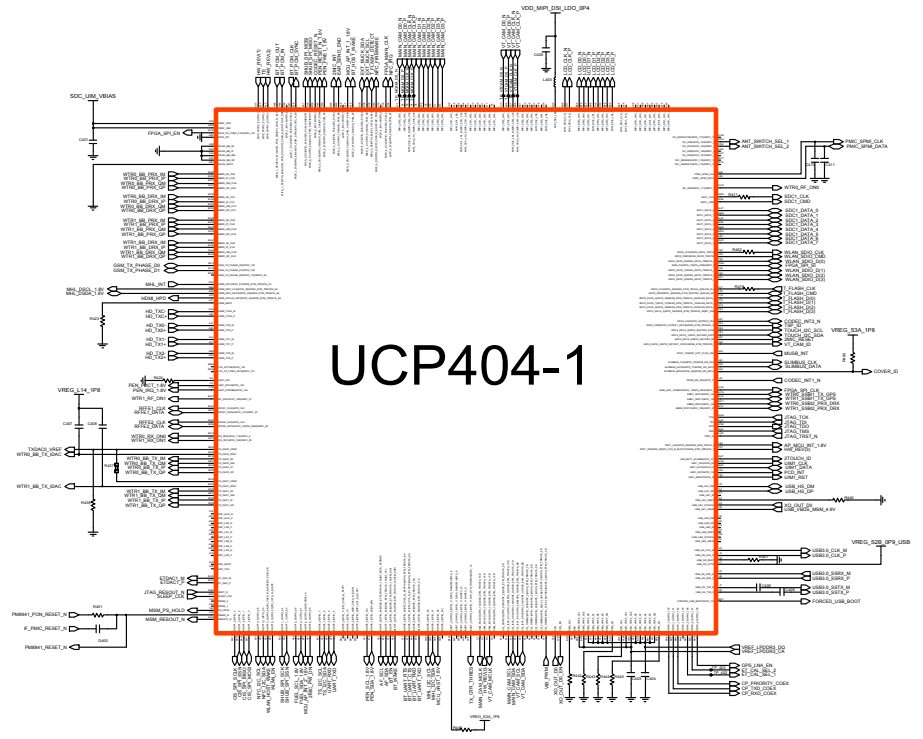

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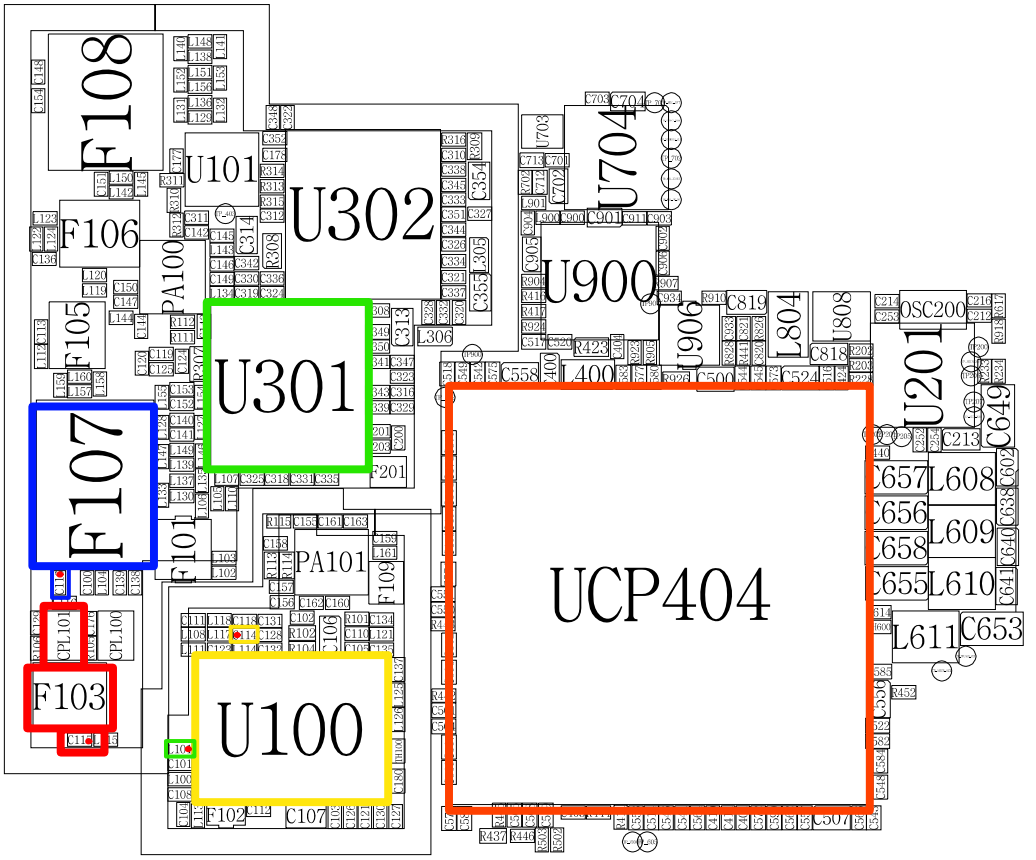

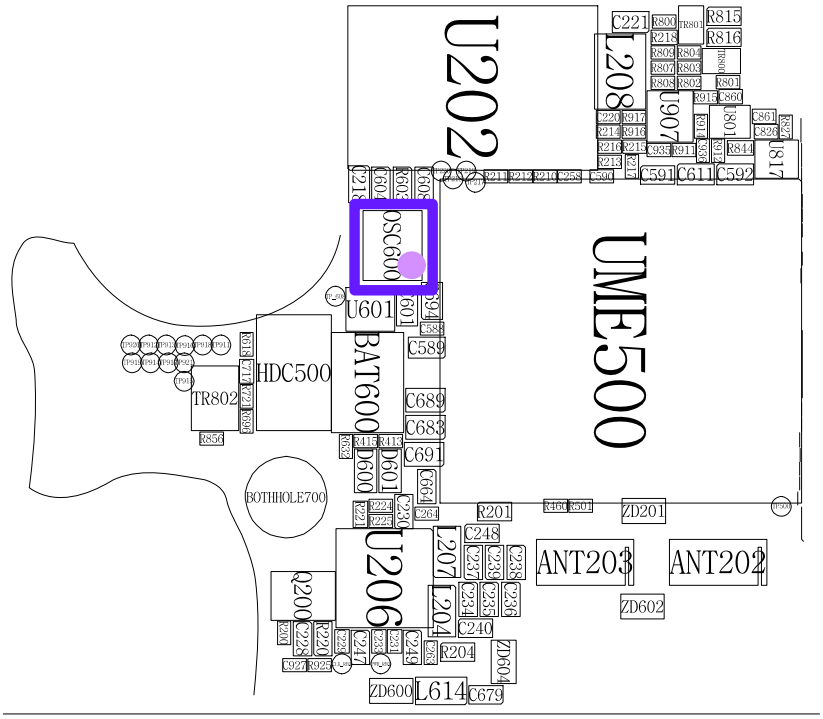

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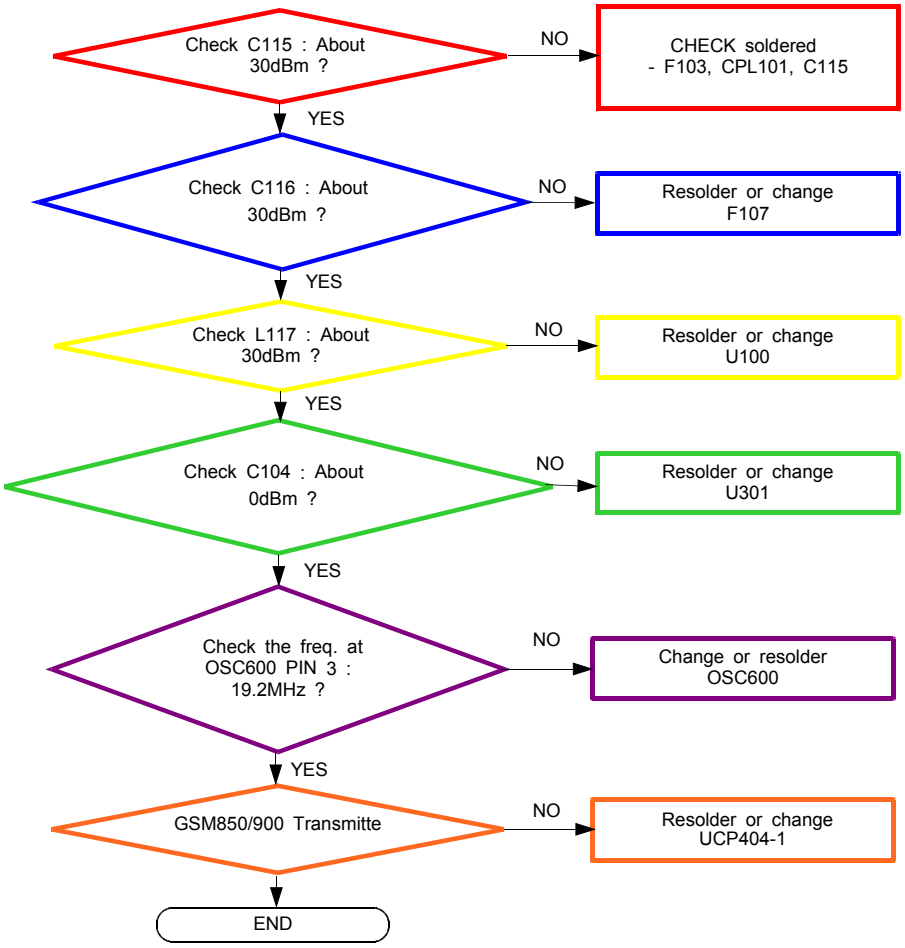
8-3-39. LTE Band4 TX



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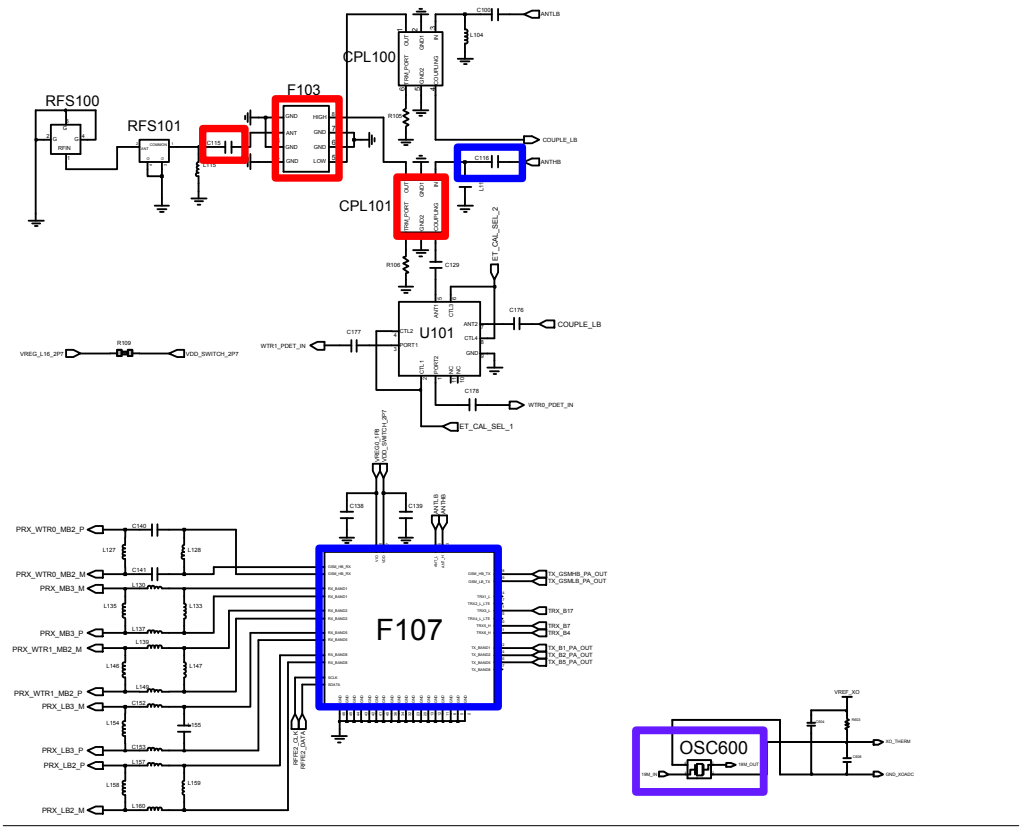

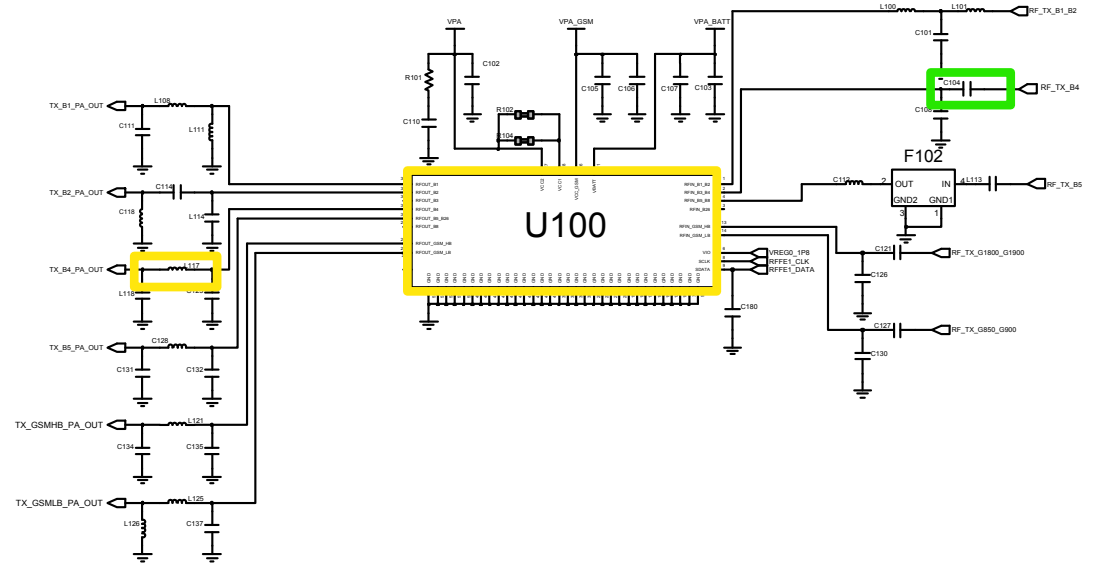

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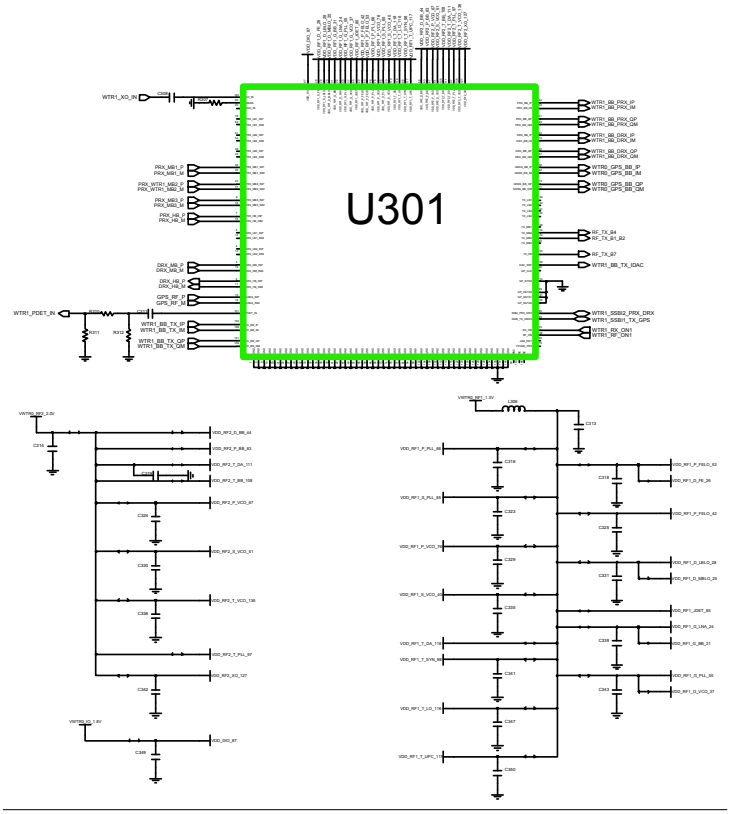

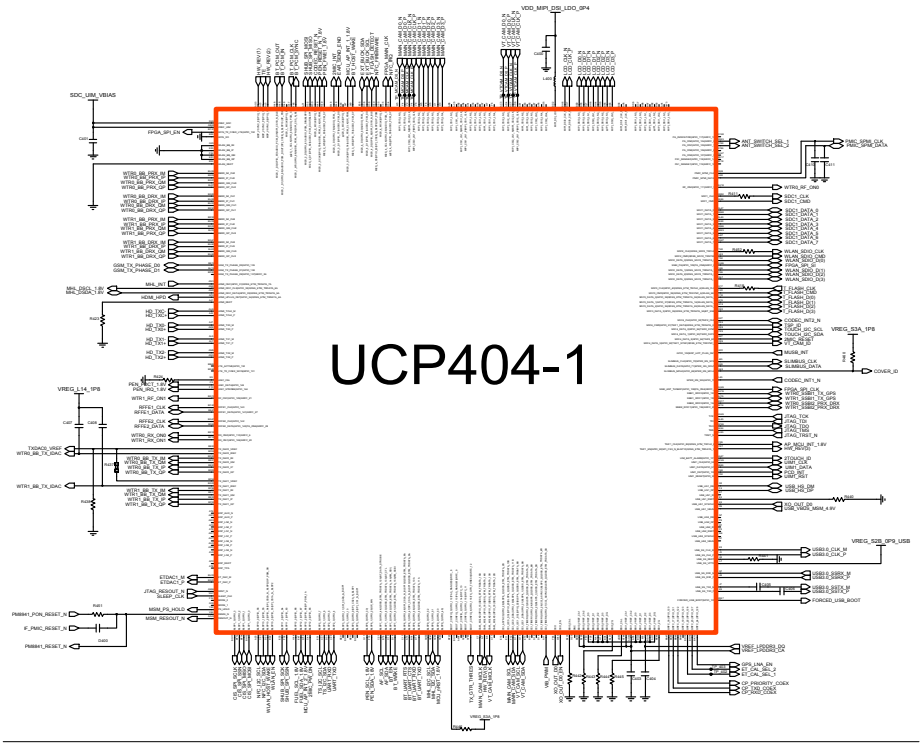

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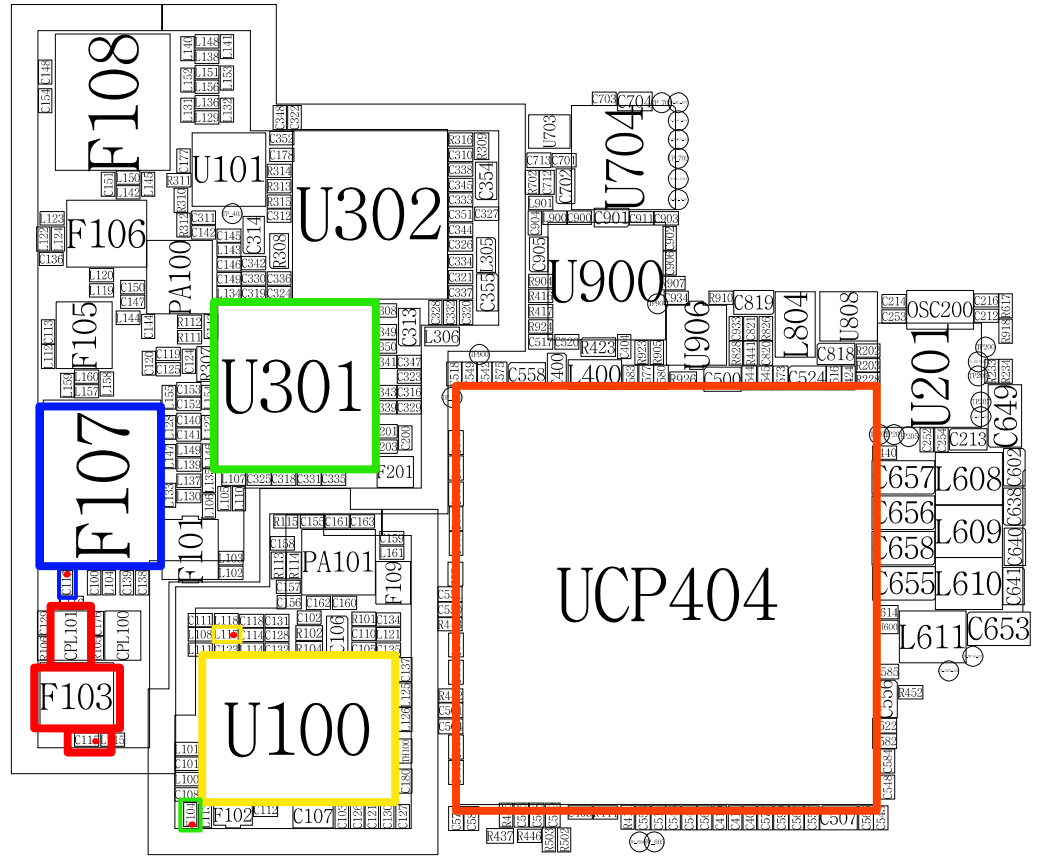

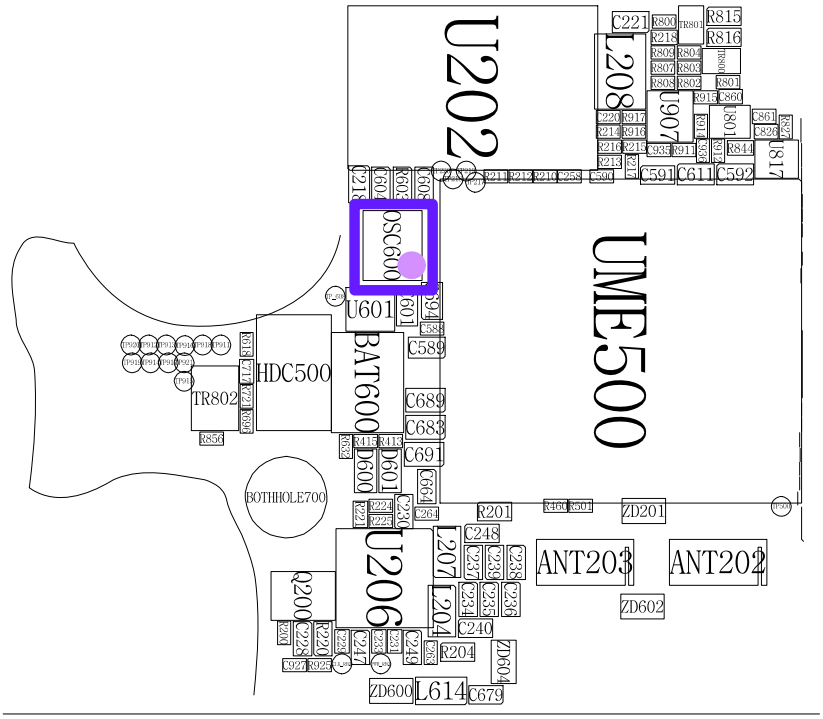

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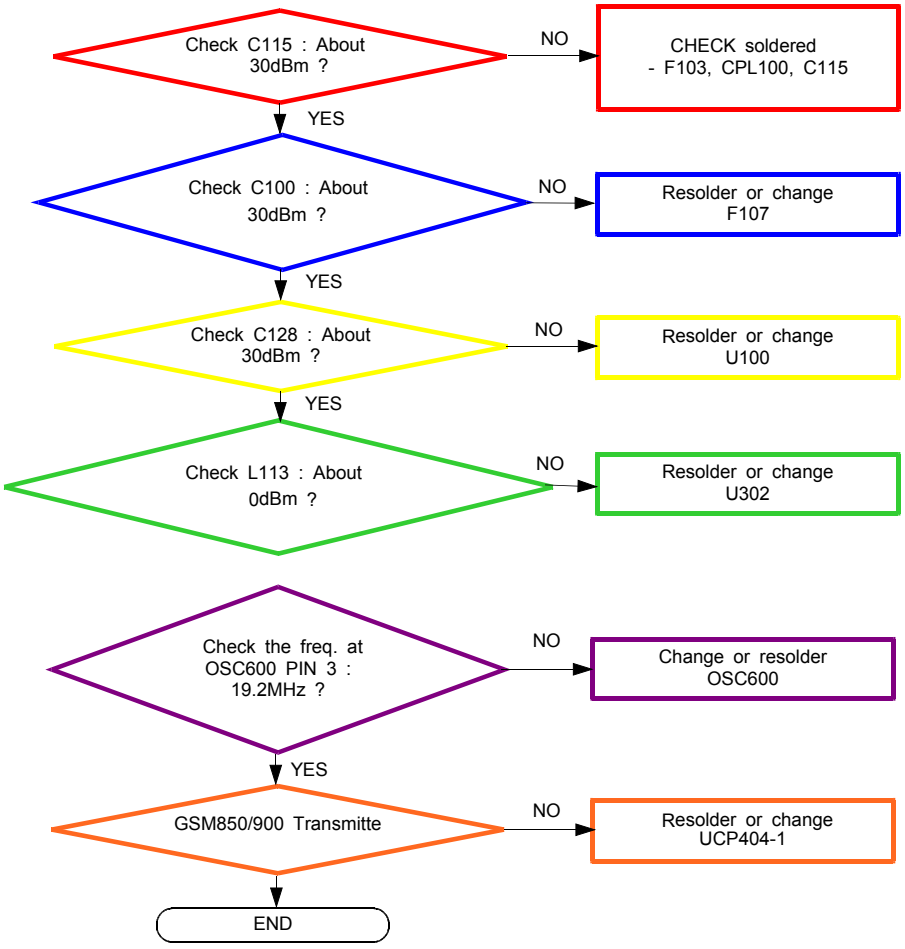
8-3-40. LTE Band5 TX



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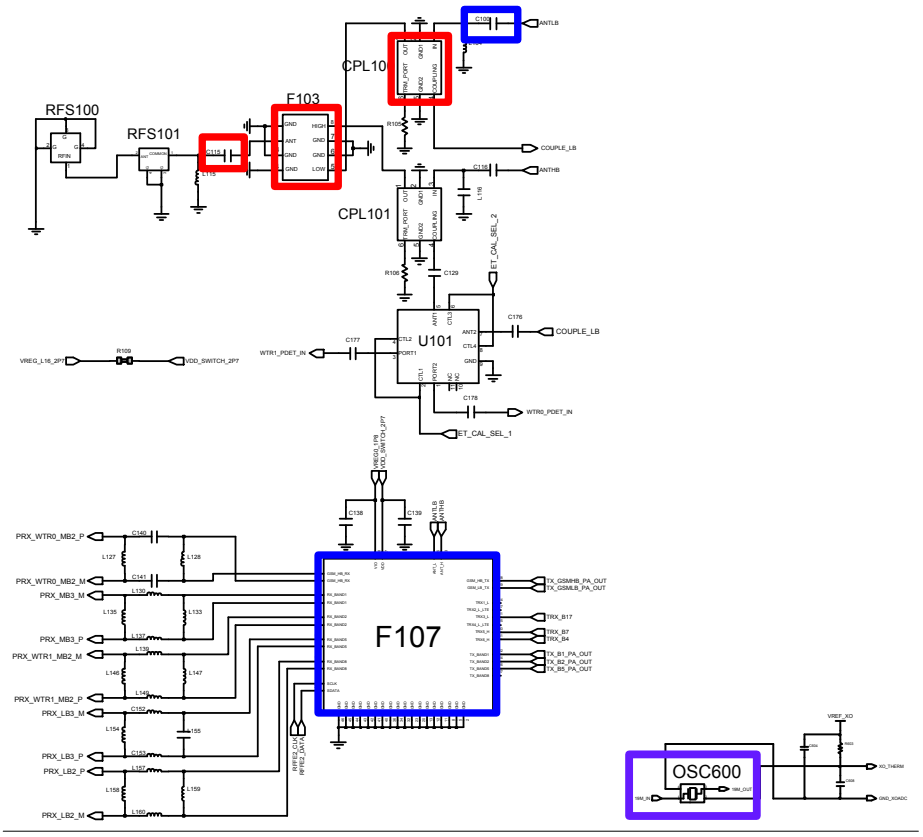

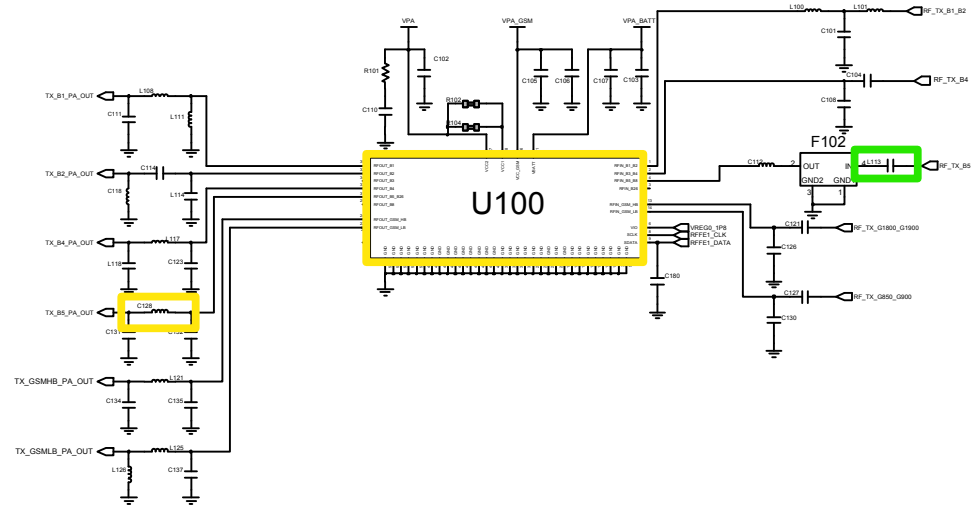

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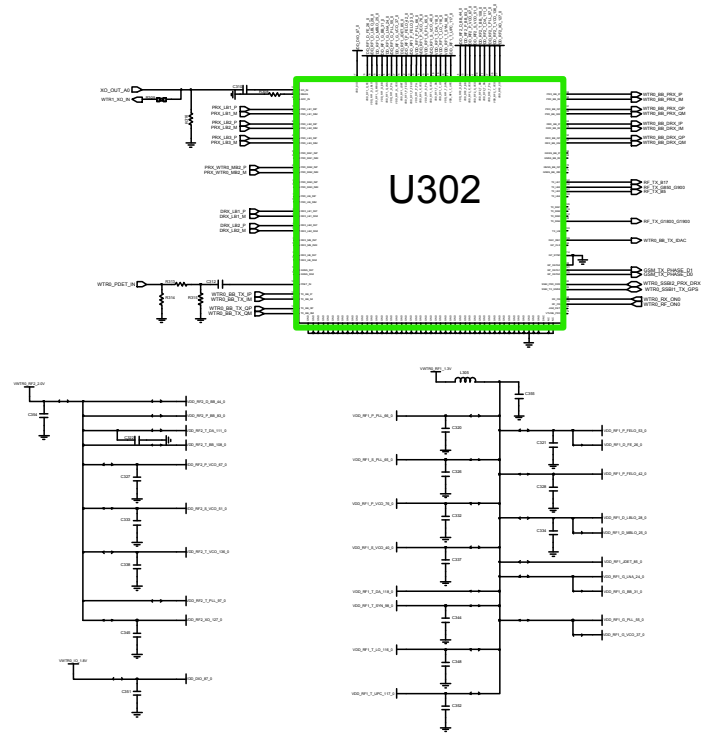

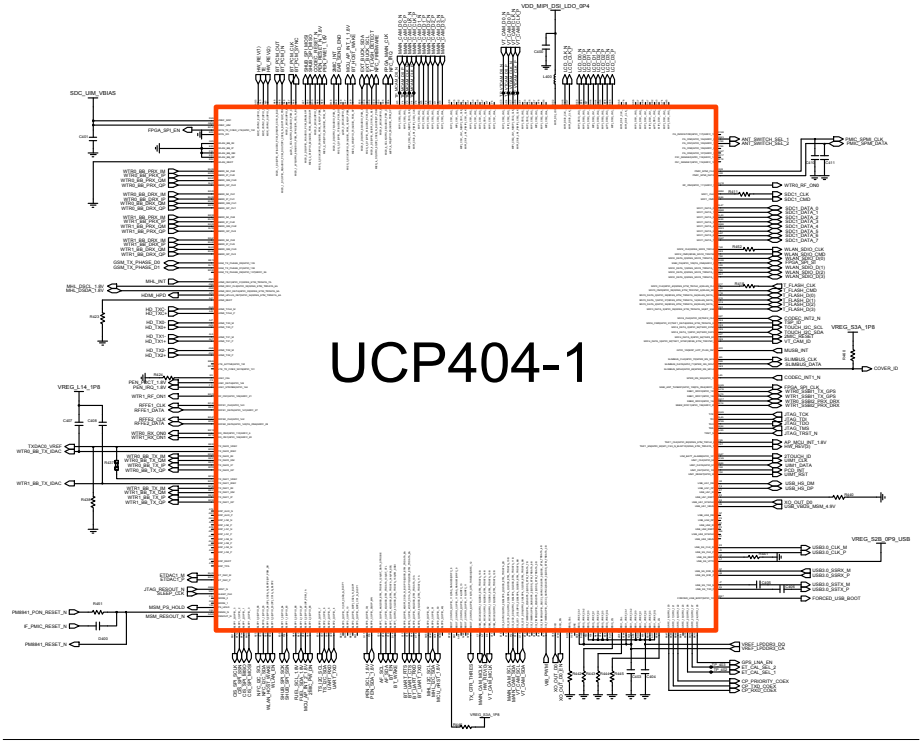

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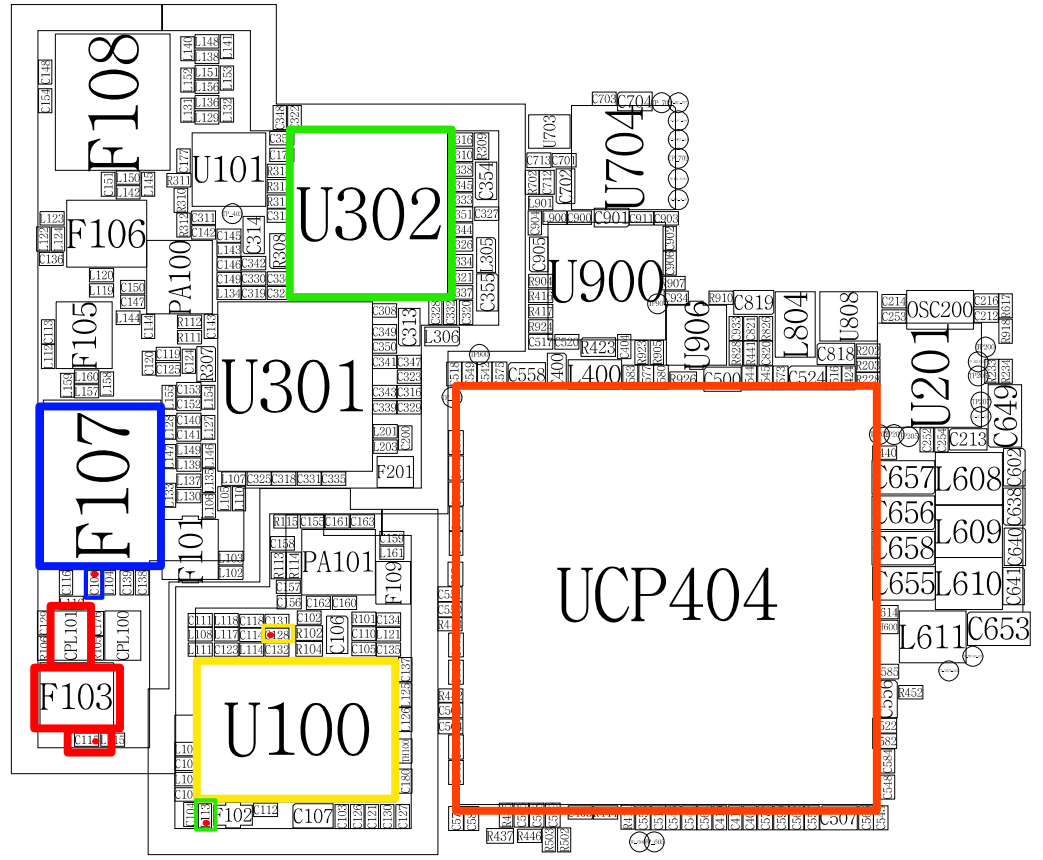

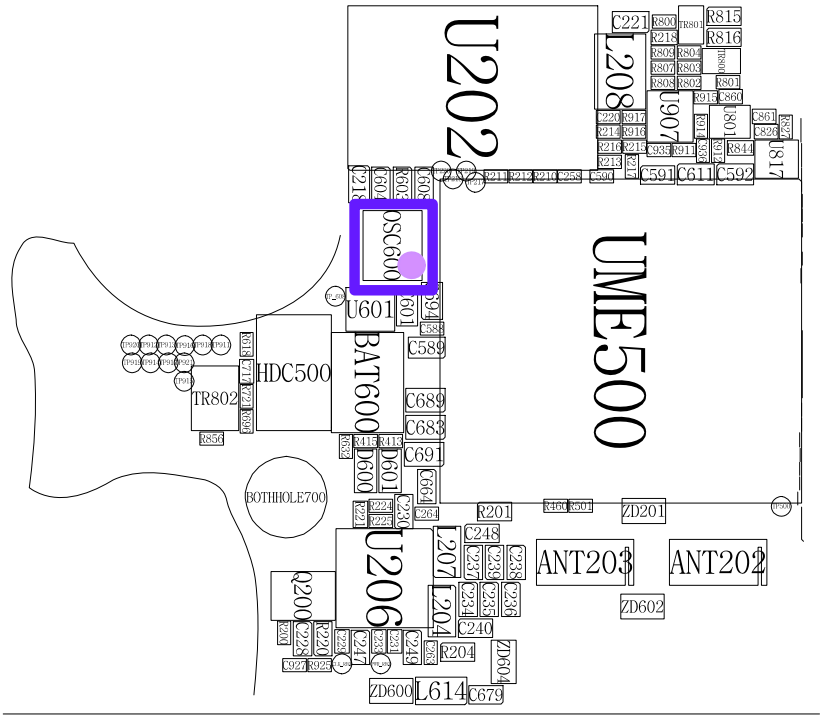

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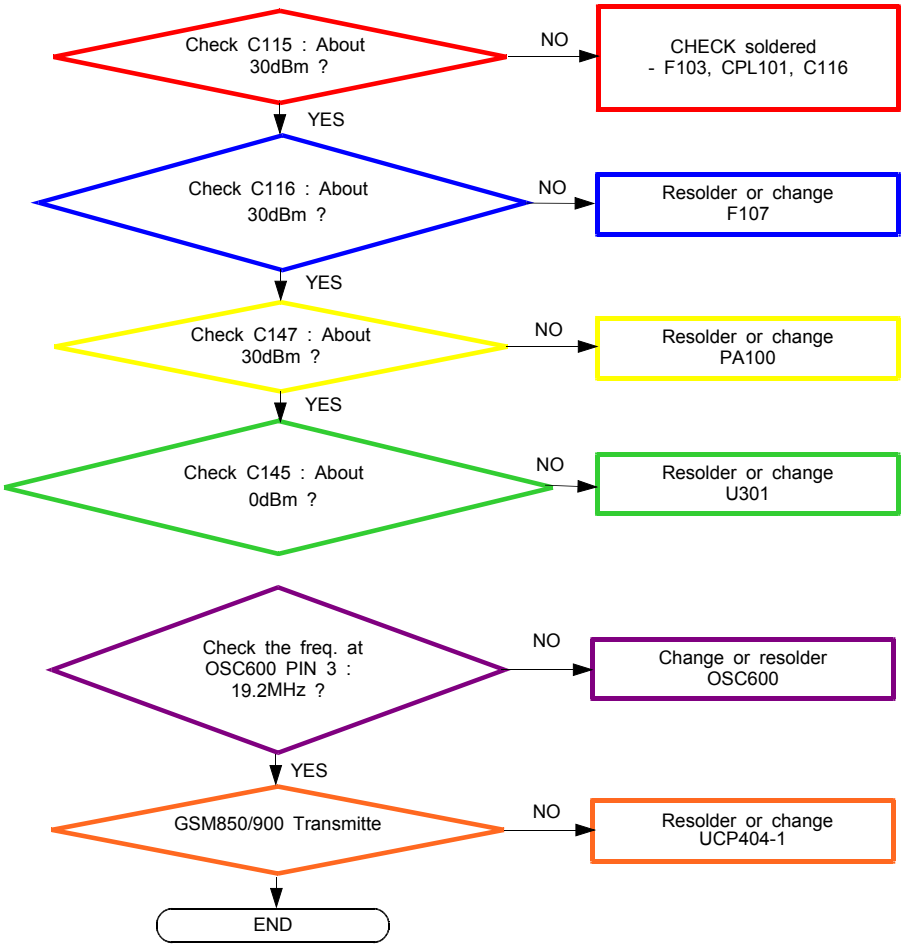
8-3-41. LTE Band7 TX



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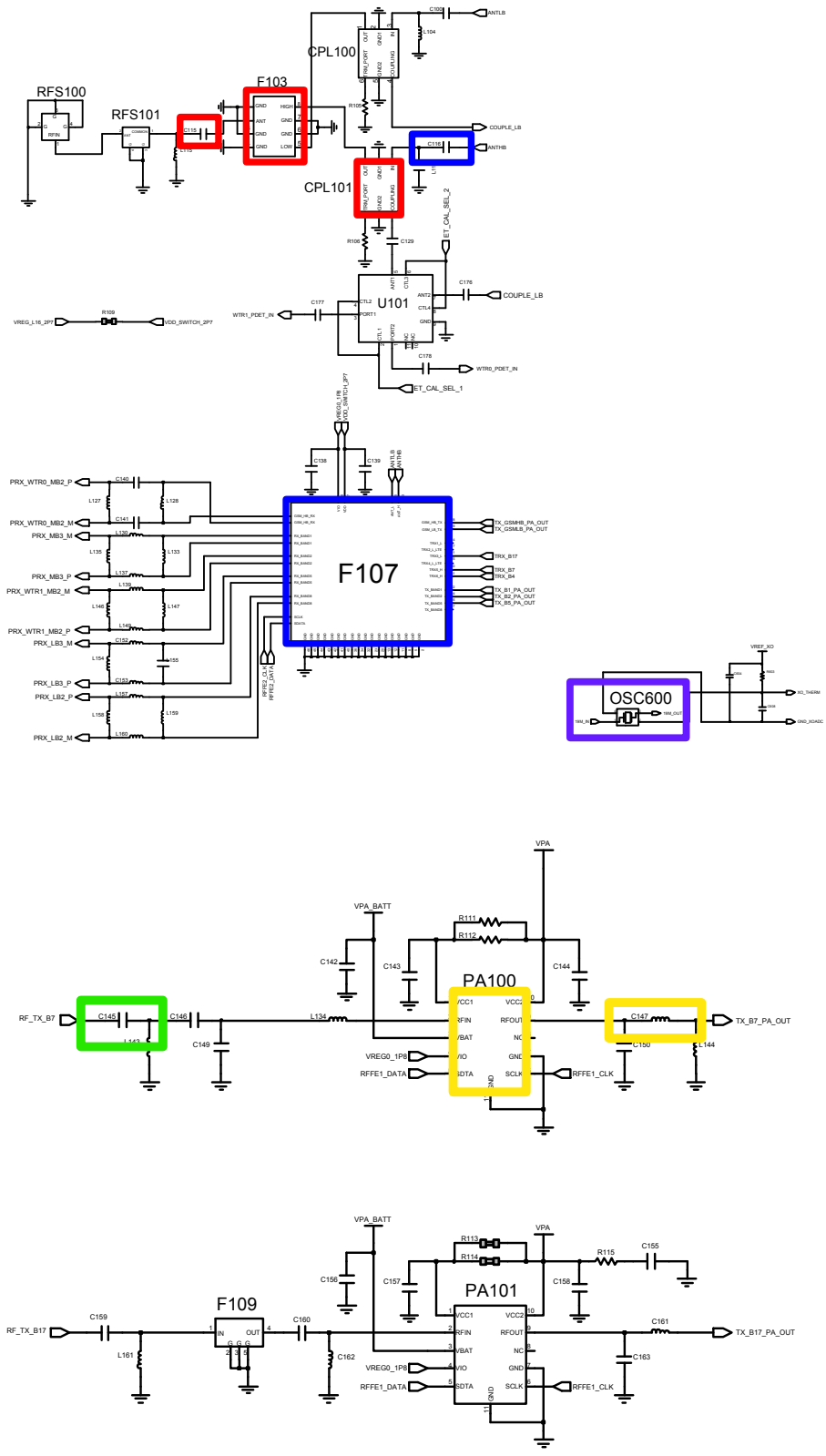

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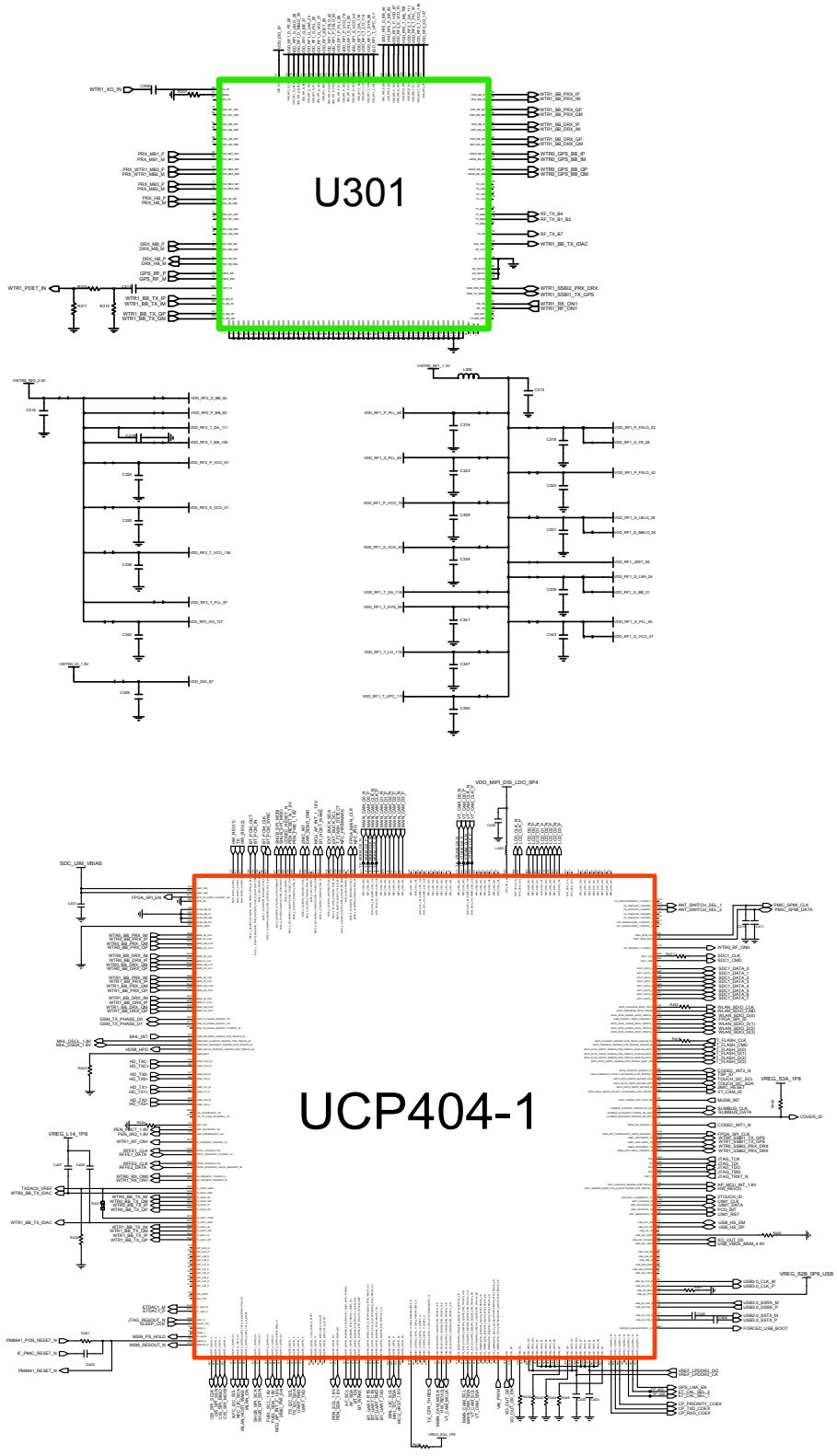

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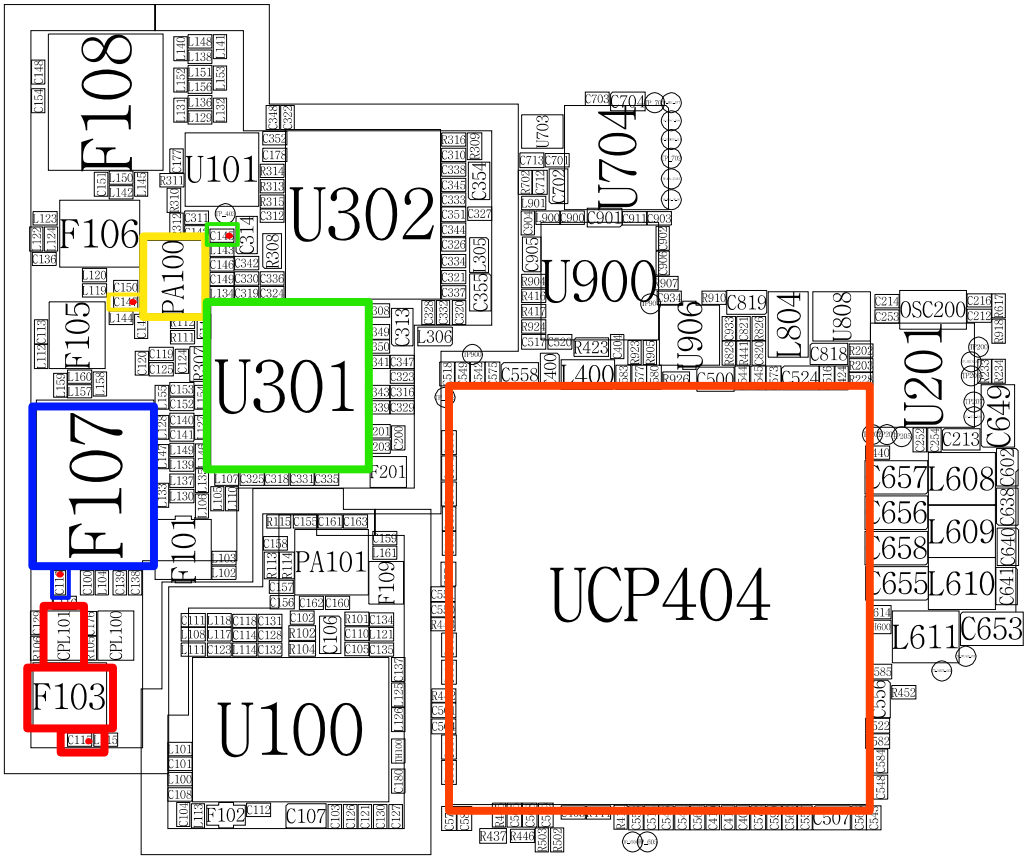

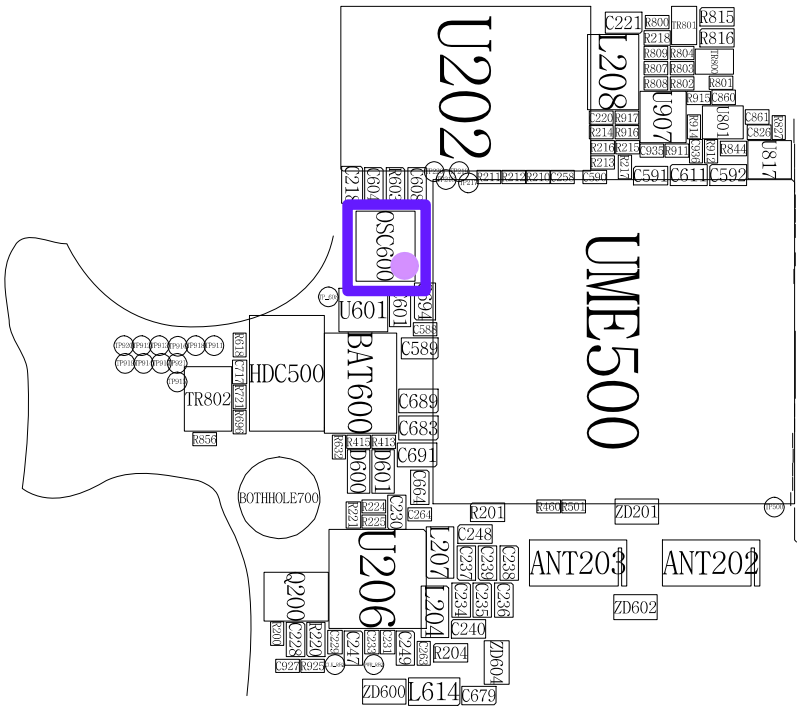

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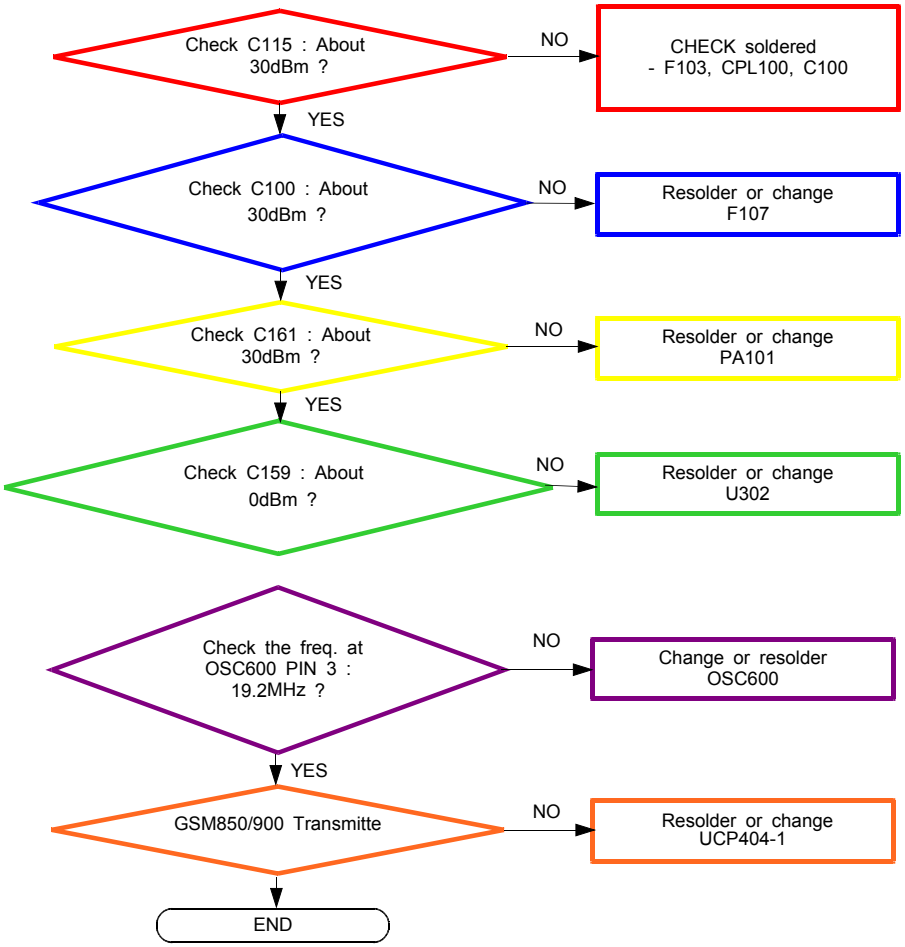
8-3-42. LTE Band17 TX



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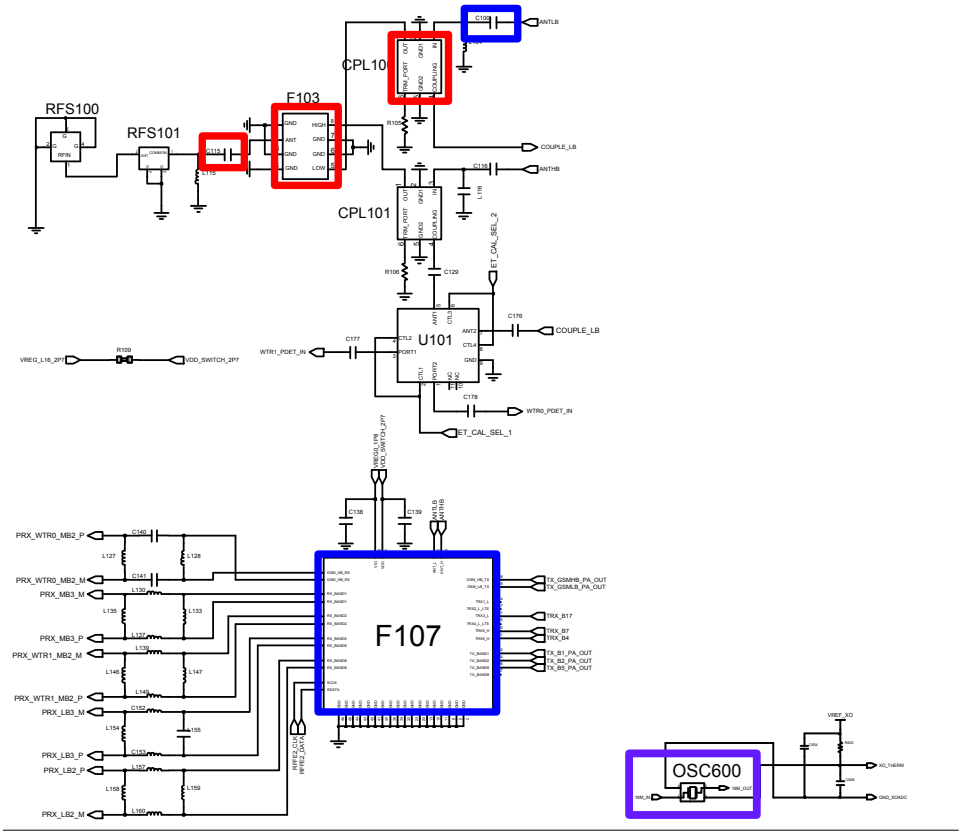

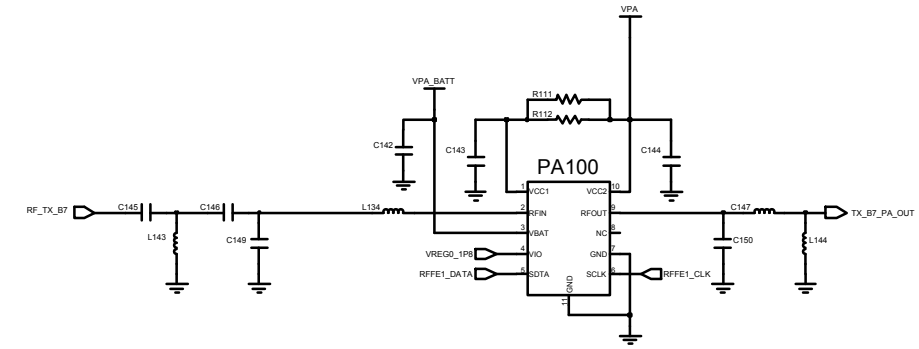

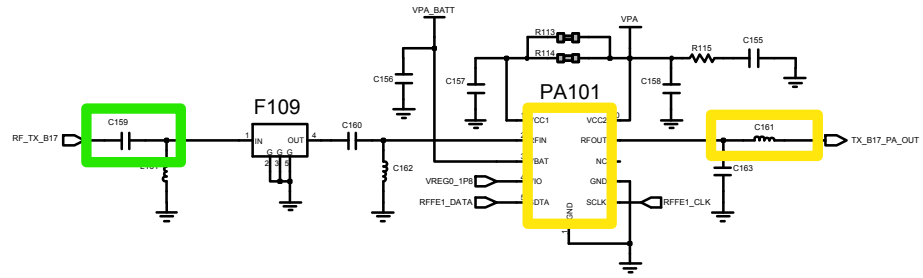

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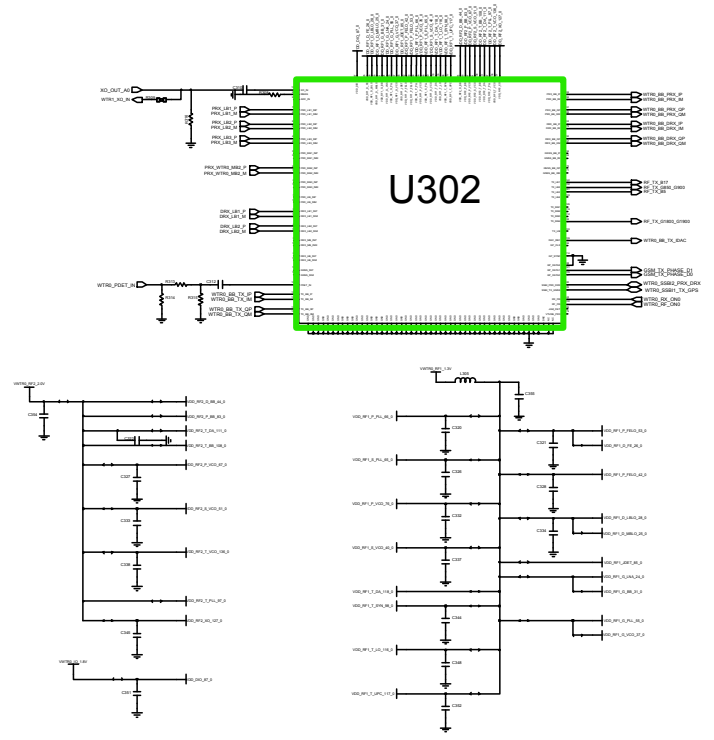

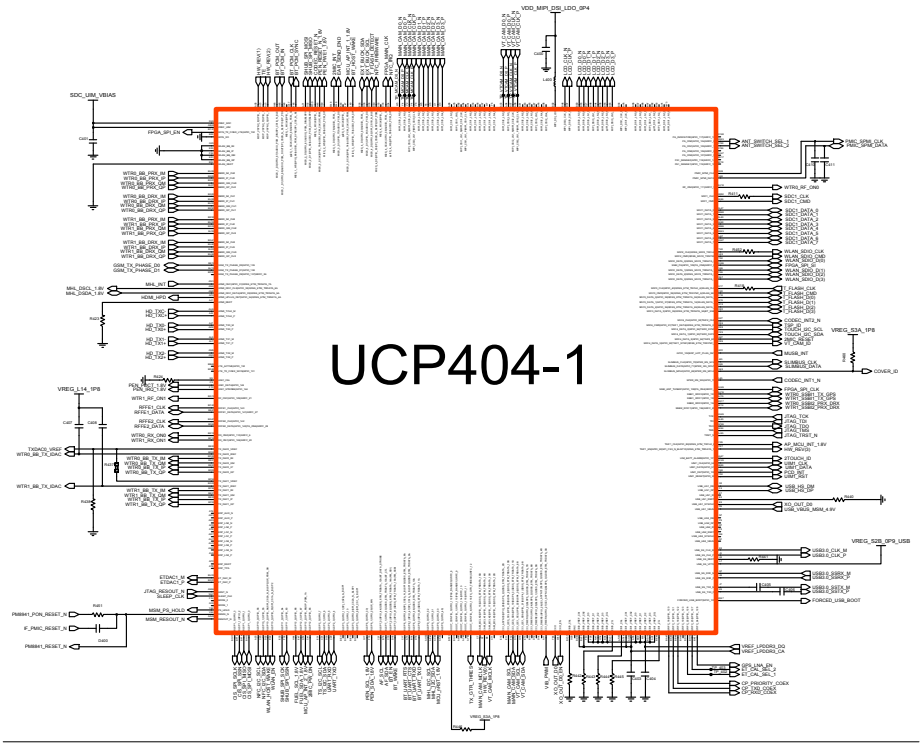

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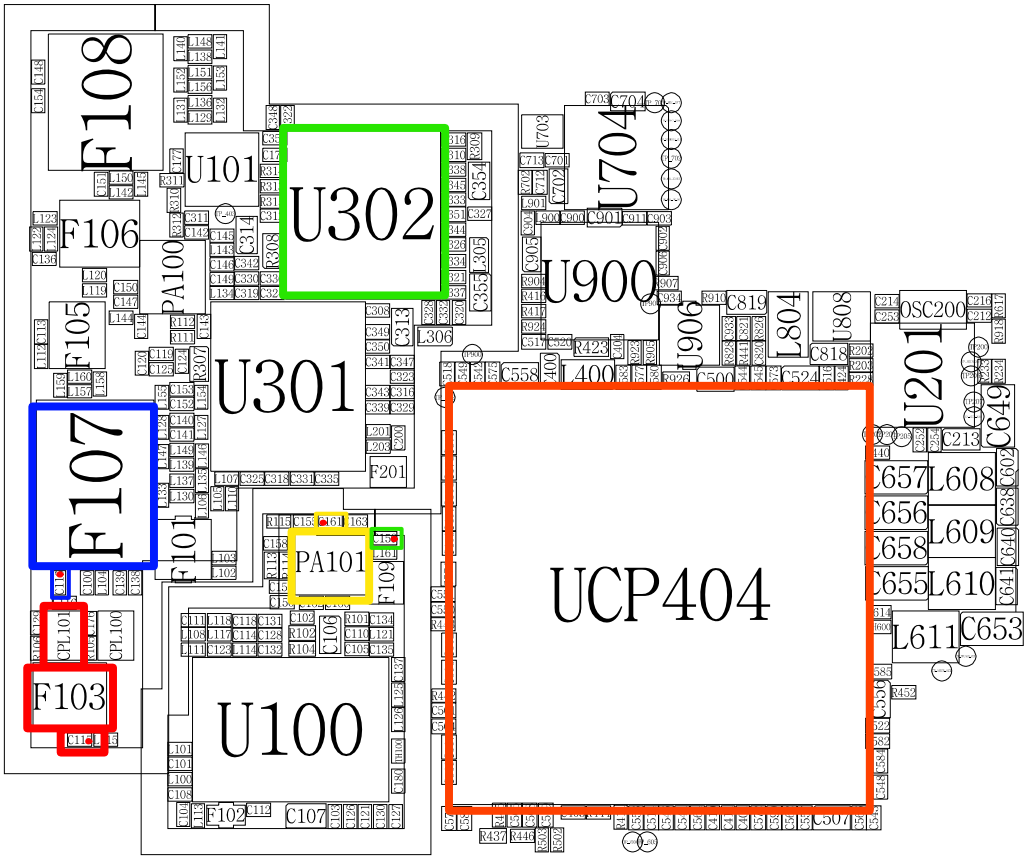

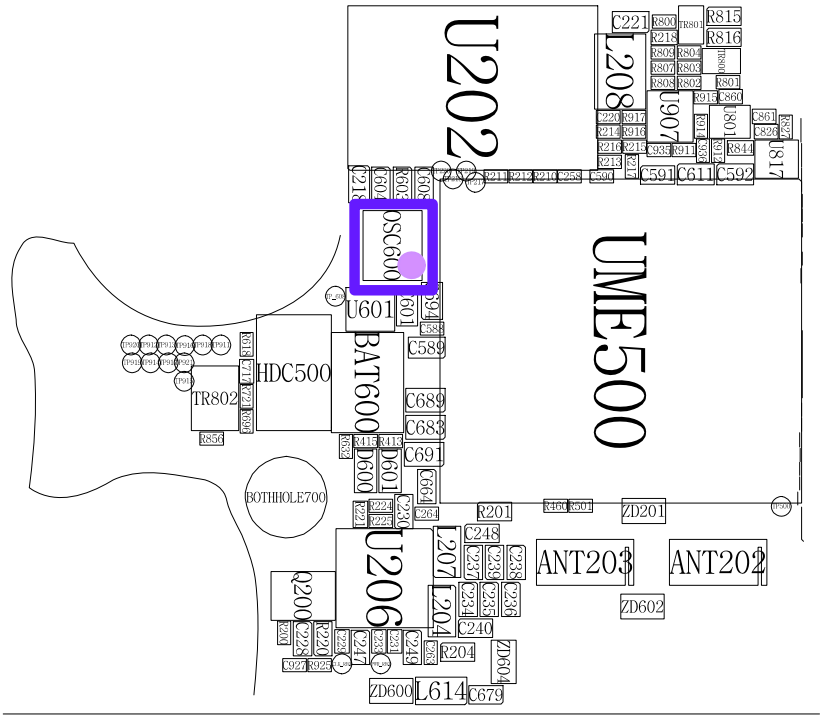

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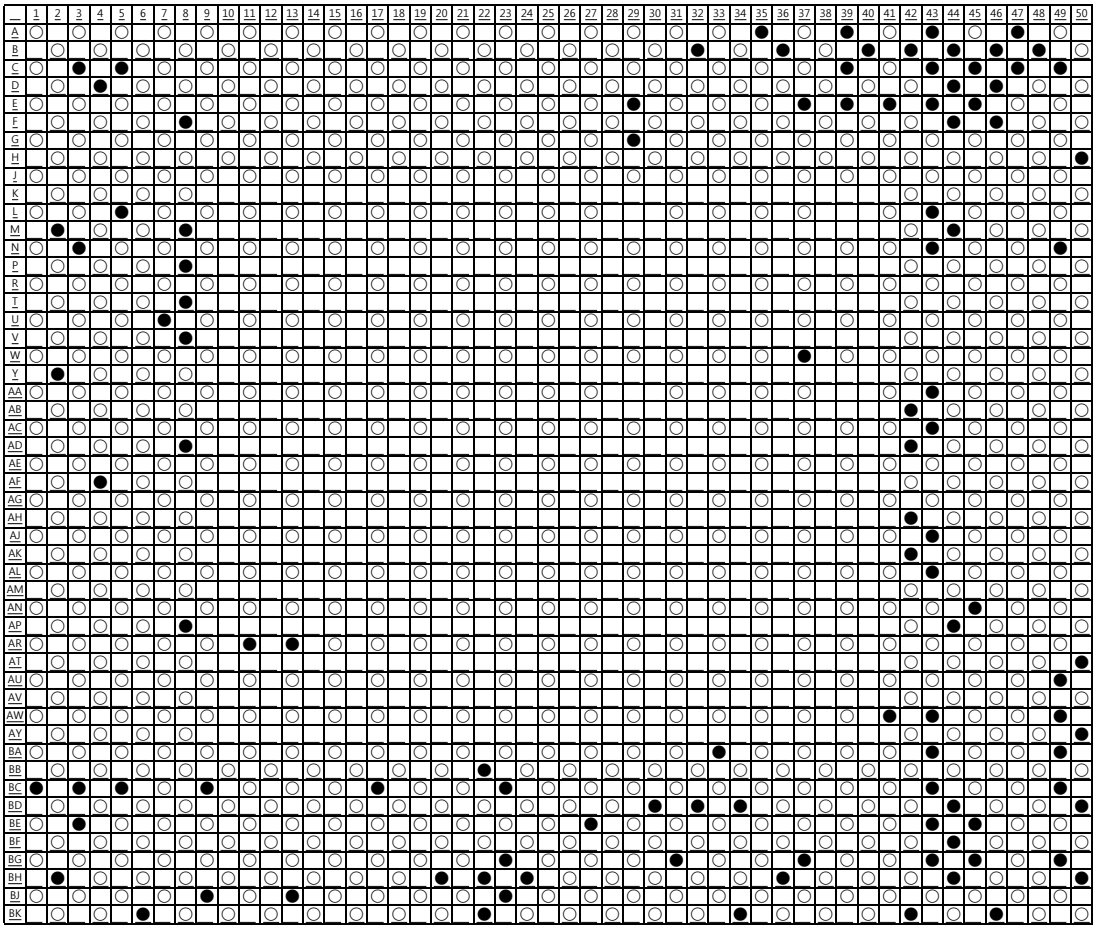
8-4. Service Schematics

- NC Point(Top View)

●: NC



UCP404

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